

NAT'L INST. OF STAND. & TECH. R.I.C.



A11103 712389

NISTIR 4616

REFERENCE

NIST
PUBLICATIONS

Building Technology Publications 1986—1989



QC

100

.U56

#4616

1991

Department of Commerce
Institute of Standards and Technology
and Fire Research Laboratory
Gaithersburg, MD 20899



NISTK
02105
- 456
4616
1991

NISTIR 4616

Building Technology Publications 1986-1989

Thomas A. Somers

June 1991

U.S. Department of Commerce
Robert A. Mosbacher, *Secretary*
National Institute of Standards and Technology
John W. Lyons, *Director*
Building and Fire Research Laboratory
Gaithersburg, MD 20899

BUILDING TECHNOLOGY PUBLICATIONS 1986-1989

ABOUT CBT¹

CBT is the nation's leading building research laboratory. As part of the National Institute of Standards and Technology (NIST), located in Gaithersburg, Maryland, CBT develops measurement and test measurements through laboratory, field, and analytical research. CBT's work focuses on developing technologies for predicting, measuring, and testing the performance of building materials, components, systems, and practices. CBT's scientific and engineering focus is in structural engineering, materials sciences and engineering, mechanical and environmental systems, and computer-integrated construction. Its findings contribute to increasing the usefulness, safety, and economy of buildings, and enhancing the international competitiveness of U.S. building services and products, through advancing building technology.

CBT's laboratory provides the major nonproprietary source of technical information for developing voluntary standards for buildings and other structures by the professional societies, trade associations, and model building code organizations. These standards are widely used in building codes.

USING THIS PUBLICATION

This publication communicates the results of CBT's research during the period 1986 through 1989. Publications constitute a major end product to NIST's efforts. This publication is divided into six chapters:

1. alphabetical listing of publication titles,
2. keyword listing,
3. author listing,
4. title listings classified by NIST Publication Series and by non-NIST publishers such as a professional society. For the former, report titles are listed under six publication designators: Building Science Series, Technical Notes, Special Publications, Journal of Research, Letter Reports, Interagency Reports,
5. technical disciplines – Structures, Materials, Environment, and
6. report reference index used to identify report titles by using the report reference numbers from keywords in Chapter 2 and authors in Chapter 3.

All NIST publications are available from NTIS along with many of the non-NIST publications. NTIS's address is: 5285 Port Royal Road, Springfield, VA 22161 (703-487-4800).

¹ In February 1991, as part of an overall NIST reorganization, the Center for Building Technology and the Center for Fire Research were combined into a new organization named the Building and Fire Research Laboratory.

Readers interested in NIST's building and fire research are invited to order Building and Fire Research Laboratory Project Summaries 1991 and Publications of the Building and Fire Research Laboratory 1991.

NIST undertakes research in various areas. Interested readers will find other NIST publications listed in NIST Special Publication 305, Publications of the National Institute of Standards and Technology.

We thank you for your interest in NIST's building technology research reports.

CONTENTS

1.	PUBLICATION INDEX.....	1
2.	KEYWORD INDEX.....	21
3.	AUTHOR INDEX.....	62
4.	NIST PUBLISHED REPORTS INDEX.....	68
	NON-NIST PUBLISHED REPORTS INDEX.....	82
5.	TECHNICAL DISCIPLINE INDEX.....	103
6.	PUBLICATION REFERENCE INDEX.....	137

PUBLICATION INDEX

RPT REF
NUMBER

A

ABSORPTION OF HIGH-RANGE WATER-REDUCING AGENTS ON SELECTED PORTLAND CEMENT PHASES AND RELATED MATERIALS.....	4629
AC-IMPEDANCE SPECTROSCOPY STUDY OF THE EFFECTS OF SURFACE ROUGHNESS AND CONTAMINATION ON THE CORROSION BEHAVIOR OF EPOXY COATED STEEL.....	4673
ACCELERATED AGING TEST DESIGN FOR COATING SYSTEMS.....	4567
ACCELERATED VERSUS NATURAL WEATHERING OF COATINGS AND OTHER POLYMERIC MATERIALS: A STATE OF THE ART.....	4670
ACCELERATED VS. NATURAL WEATHERING OF COATINGS AND POLYMERIC MATERIALS: STATE-OF-THE-ART.....	4689
ACTIVITIES OF CONSTRUCTION MATERIALS REFERENCE LABORATORIES RELATED TO LABORATORY ACCREDITATION.....	4714
AIR EXCHANGE AND POLLUTANT CONCENTRATION MEASUREMENTS IN TWO OFFICE BUILDINGS.....	4418
AIR QUALITY INVESTIGATION IN THE NIH RADIATION ONCOLOGY BRANCH.....	4657
AIRFLOW NETWORK MODELS FOR COMPONENT BASED BUILDING AIRFLOW MODELING....	4476
AIRNET - A COMPUTER PROGRAM FOR BUILDING AIRFLOW NETWORK MODELING.....	4552
AIRTIGHTNESS OF OFFICE BUILDING ENVELOPES.....	3023
ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS.....	4153
ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS.....	4219
AMPLIFICATION OF WIND EFFECTS ON COMPLIANT PLATFORMS.....	3078
ANALYSIS OF ENVIRONMENTAL DATA FROM THREE ARMY FIELD STATIONS.....	4477
ANALYSIS OF IN-PLACE TEST DATA WITH SPREADSHEET SOFTWARE.....	2871
ANALYSIS OF SHORING LOADS AND SLAB CAPACITY FOR MULTISTORY CONCRETE CONSTRUCTION.....	2657
ANALYSIS OF SHORING LOADS AND SLAB CAPACITY FOR MULTISTORY CONCRETE CONSTRUCTION FORMING ECONOMICAL CONCRETE BUILDINGS.....	4353
ANALYTICAL METHOD FOR BETTER FIRE SAFETY DESIGN.....	4498
APPLICATION OF A HARD-SPHERE EQUATION OF STATE TO REFRIGERANTS AND REFRIGERANT MIXTURES.....	3122
APPLICATION OF CCRL DATA IN THE DEVELOPMENT OF CEMENT STANDARDS.....	4489
APPLICATION LAYER COMMUNICATION PROTOCOLS FOR BUILDING ENERGY MANAGEMENT AND CONTROL SYSTEMS.....	4401
APPLICATION OF MATHEMATICAL MODELING TO THE EVALUATION OF BUILDING VENTILATION SYSTEMS.....	4535
APPLICATION OF REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY.....	4084
APPLICATION OF THE CARNAHAN-STARLING-DeSANTIS EQUATION OF STATE TO MIXTURES OF REFRIGERANTS.....	4147
APPLICATION OF THERMAL WAVE ELECTRON MICROSCOPY TO IMAGE AND ASSESS CORROSION ON ROUGH STEEL.....	4085

APPLYING EXPERT SYSTEMS TO BUILDING STANDARDS.....	4285
AQUEOUS SOLUBILITY RELATIONSHIPS FOR TWO TYPES OF CALCIUM SILICATE HYDRATE.....	4019
ASHLAND TANK COLLAPSE INVESTIGATION.....	4594
ASSESSMENT OF ROBOTICS FOR IMPROVED BUILDING OPERATION AND MAINTENANCE..	4487
ASSESSMENT: US OFFICE BUILDING IN MOSCOW.....	4379
ASTM COMMITTEE COMPLETES WORK ON EPDM SPECIFICATION.....	4528
ASTM STANDARDS ACTIVITIES FOR SINGLE-PLY ROOFING: THE EPDM SPECIFICATION IS CLOSE TO COMPLETION.....	4225
AUTOMATED MAINTENANCE MANAGEMENT PROGRAM PART I: QUANTITATIVE ASSESSMENT OF THE EXTERIOR CONDITION OF METAL BUILDINGS AND ROOFING SYSTEMS (ETC).....	4317
AUTONOMOUS PROPULSION SYSTEM REQUIREMENTS FOR PLACEMENT OF AN STS EXTERNAL TANK IN LOW EARTH ORBIT.....	4727

B

BEHAVIOR OF 1/6-SCALE MODEL BRIDGE COLUMNS SUBJECTED TO CYCLIC INELASTIC LOADING.....	4167
BRICK MASONRY: US OFFICE BUILDING IN MOSCOW.....	4493
BUILDING ENERGY SIMULATION USING ASSEMBLAGES OF DISCRETE THERMAL ELEMENTS.....	4303
BUILDING MATERIALS: NONDESTRUCTIVE EVALUATION.....	4068
BUILDING STRUCTURAL FAILURES - THEIR CAUSE AND PREVENTION.....	4103
BUILDING TECHNOLOGY PROJECT SUMMARIES, 1987.....	4327
BUILDING TECHNOLOGY PROJECT SUMMARIES, 1988.....	4496
BUILDING TECHNOLOGY PROJECT SUMMARIES, 1989.....	4653
BUILDING TECHNOLOGY PUBLICATIONS SUPPLEMENT 10: 1985-86.....	4256
BULLETIN BOARD SYSTEM FOR FEEDBACK TO THE DURCON EXPERT SYSTEM: A DESCRIPTION AND REFERENCE.....	2936

C

CALCULATIONS OF MAXIMUM ALLOWABLE HEAT LOSSES FOR VARIOUS SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS.....	4230
CALIBRATION OF THE NBS CALIBRATED HOT BOX.....	2840
CAPACITY AND OVERLOAD TESTS OF A 7-1/2 TON PACKAGE UNIT AIR CONDITIONER.	4395
CEMENTS: CALCIUM ALUMINATE.....	677
CEMENTS: PORTLAND CEMENTS, BLENDED CEMENTS, AND MORTARS.....	676
CEMENTS: SPECIALTIES.....	675
CFC'S - QUEST FOR ALTERNATIVES.....	4292
CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS.....	4746
CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS.....	4575
CHAOTIC BEHAVIOR OF GALLOPING OSCILLATORS.....	4576

CHARACTERIZATION OF A PIEZOELECTRIC TRANSDUCER COUPLED TO A SOLID.....	4376
CHARACTERIZATION OF CYLINDRICAL HOLES IN METALLIC SUBSTRATES VIA THEIR INFRARED EMISSION PATTERNS.....	4712
CHARACTERIZATION OF EPOXIDE COATINGS ON STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY - A QUANTITATIVE STUDY.....	4332
CHARACTERIZATION OF EPOXY COATINGS ON COLD ROLLED STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY.....	2988
CHARACTERIZATION OF POTENTIAL THERMAL DEGRADATION PRODUCTS FROM THE REACTIONS OF AQUEOUS ETHYLENE GLYCOL AND PROPYLENE GLYCOL SOLUTIONS WITH COPPER METAL.....	4522
CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES.....	3030
CO EMISSION FROM DRAFT HOOD EQUIPPED CENTRAL FURNACE.....	4541
CODE REQUIREMENTS IN PLUMBING ENGINEERING FOR DWELLING WITH ACCEPTANCE OF WATER CONSERVATION.....	3108
COLLAPSE OF FILING SYSTEM IN NOAA SILVER SPRING OFFICE.....	4650
COLLAPSE OF MASONRY WALL UNDER CONSTRUCTION IN PAWTUCKET, RI OCTOBER 28, 1985.....	4502
COLOR AND LIGHTING.....	4179
COMBUSTION TESTING METHODS FOR CATALYTIC SPACE HEATERS.....	3107
COMING REDEFINITION OF PHOTOMETRY.....	974
COMPARISON OF CHROMOTROPIC ACID, PARAROSANILINE, AND GRAVIMETRIC FORMALDEHYDE DETERMINATIONS.....	4429
COMPARISON OF DIRECT DIGITAL CONTROL AND PNEUMATIC CONTROL SYSTEMS IN A LARGE OFFICE BUILDING.....	4406
COMPARISON OF EXPERIMENTAL AND CALCULATED PERFORMANCE OF INTEGRAL COLLECTOR-STORAGE SOLAR WATER HEATERS.....	3117
COMPARISON OF MEASURED AND PREDICTED SENSIBLE HEATING AND COOLING LOADS FOR SIX TEST BUILDINGS.....	3025
COMPARISON OF TWO TEST METHODS FOR DETERMINING TRANSFER FUNCTION COEFFICIENTS FOR A WALL USING A CALIBRATED HOT BOX.....	4339
COMPUTER DESIGN PROCEDURES - INTRODUCTION FOR ACCEPTANCE IN THE REGULATORY PROCESS.....	3109
COMPUTER INTEGRATED CONSTRUCTION.....	4364
COMPUTER PROGRAM FOR CALCULATING HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS.....	3028
COMPUTER SIMULATED HYDRATION OF A CEMENT MODEL.....	3137
COMPUTER SIMULATION OF PARTICLE SIZE DISTRIBUTION EFFECTS ON CEMENT MICROSTRUCTURE.....	4695
CONCEPTUAL STRUCTURES FOR MODELING BUILDING INFORMATION.....	4416
CONSIDERATIONS FOR ADVANCED BUILDING THERMAL SIMULATION PROGRAMS.....	4556
CONSTRUCTION LOADS AND LOAD EFFECTS IN CONCRETE BUILDING CONSTRUCTION...	4362
CONSTRUCTION MATERIALS REFERENCE LABORATORIES AT NIST.....	4204
CONSTRUCTION MATERIALS REFERENCE LABORATORY AT NIST PROMOTING QUALITY IN LABORATORY TESTING.....	4696
CONTINUOUS VERSUS CYCLIC WET-DRY EXPOSURE RESULTS FOR SCRIBED STEEL COATED PANELS.....	4534

CONTROL OF INDOOR AIR QUALITY BY MEANS OF HVAC SYSTEMS.....	3042
CONTROL SYSTEM SIMULATION IN NORTH AMERICA.....	4191
CONTROLLING AIR QUALITY IN OFFICE BUILDINGS.....	3041
CONVECTION BETWEEN ZONES WITH NON-LINEAR TEMPERATURE DISTRIBUTIONS.....	3123
COOPERATIVE CALIBRATION AND ANALYSIS OF CEMENT CLINKER PHASES.....	4628
CORROSION-INDUCED DEGRADATION OF AMINE-CURED EPOXY COATINGS ON COLD-ROLLED STEEL.....	4229
CORROSION INDUCED DEGRADATION OF ANINE CURED EPOXY COATINGS ON STEEL....	4090
CORROSION OF METALLIC FASTENERS IN LOW-SLOPED ROOFS: A REVIEW OF AVAILABLE INFORMATION AND IDENTIFICATION OF RESEARCH NEEDS.....	4546
COUPLED AIRFLOW AND THERMAL ANALYSIS PROBLEM IN BUILDING AIRFLOW SYSTEM SIMULATION.....	4644
CURRENT ABILITY OF THE ARCHITECTURE, ENGINEERING, AND CONSTRUCTION INDUSTRY TO EXCHANGE CAD DATA SETS DIGITALLY.....	4128

D

D-B REPORTS ON SINGLE-PLY ROOFING ACTIVITIES.....	4056
DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA.....	4238
DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA.....	4074
DAYLIGHTING AND THERMAL PERFORMANCE OF ROOF GLAZING IN ATRIUM SPACES.....	4458
DEGRADATION OF EPOXIDE COATINGS ON STEEL UNDER MILD CORROSIVE ENVIRONMENTS.....	4087
DEGRADATION OF ORGANIC PROTECTIVE COATINGS IN CORROSIVE ENVIRONMENT.....	4091
DEGRADATION OF ORGANIC PROTECTIVE COATINGS ON STEEL.....	4086
DESIGN CRITERIA FOR GLASS CLADDING SUBJECTED TO WIND LOADS.....	4185
DESIGN FOR PRODUCTIVITY - END USER INVOLVEMENT.....	4076
DESIGN OF FULLY REDUNDANT AUTONOMOUS LIFE SUPPORT SYSTEMS.....	4200
DESIGN OF OFFICE MUST ENTER INTO AUTOMATION PLANNING.....	4079
DESIGN PROCESS FOR INTELLIGENT BUILDINGS.....	4078
DESIGN QUALITY THROUGH USE OF COMPUTERS.....	4494
DETECTING DELAMINATIONS IN CONCRETE SLABS WITH AND WITHOUT OVERLAYS USING THE IMPACT-ECHO METHOD.....	4324
DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING AND CORROSION OF COATINGS ON STEEL INFRARED THERMOGRAPHY.....	4544
DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING AND CORROSION OF COATINGS ON STEEL USING INFRA-RED THERMOGRAPHY.....	4845
DEVELOPMENT OF MODELS FOR PREDICTION OF INDOOR AIR QUALITY IN BUILDINGS.....	4297
DEVELOPMENT AND ENFORCEMENT OF U.S. BUILDING REGULATIONS.....	4721
DEVELOPMENT OF A METHOD TO MEASURE IN-SITU CHLORIDE AT THE METAL/COATING INTERFACE.....	4625
DEVELOPMENT OF AN AUTOMATED PROBE FOR THERMAL CONDUCTIVITY MEASUREMENTS.	4658
DIAGNOSTIC TECHNIQUES FOR EVALUATING OFFICE BUILDING ENVELOPES.....	4240
DIRECTIONAL HURRICANE WIND SPEEDS.....	3071

DISCRETE THERMAL ANALYSIS METHOD FOR BUILDING ENERGY SIMULATION PART 1 LINEAR THERMAL SYSTEMS WITH DTAM1 USERS MANUAL.....	4419
DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES.....	4529
DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES.....	4187
DIURNAL EFFECTIVENESS OF PHASE CHANGE ENERGY STORAGE CYLINDERS.....	4113
DOE/NBS FORUM ON TESTING AND RATING PROCEDURES FOR CONSUMER PRODUCTS....	3118
DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES.....	4471
DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES.....	4289
DYNAMIC SIMULATION OF WHOLE BUILDING SYSTEMS.....	3114
DYNAMIC CHARACTERIZATION OF STRUCTURES BY PULSE PROBING AND DECONVOLUTION - PAPER 88-2230.....	4531
DYNAMIC CHARACTERIZATION OF STRUCTURES BY PULSE PROBING AND DECONVOLUTION.....	4328
DYNAMICS AND RELIABILITY OF COMPLIANT DRILLING AND PRODUCTION PLATFORMS.	4373

E

EARTHQUAKE DAMAGE IN MEXICO CAUSED BY THE SEPTEMBER 1985 EARTHQUAKE.....	4198
EARTHQUAKE RESISTANT CONSTRUCTION OF ELECTRICAL TRANSMISSION AND COMMUNICATION FACILITIES SERVING THE FEDERAL GOVERNMENT.....	4731
EFFECT OF APPLICATION VARIABLES ON BOND STRENGTH OF EPDM'S.....	4526
EFFECT OF BUILDING ENVELOPES ON COOLING LOADS DUE TO LIGHTING.....	4611
EFFECT OF CONTAMINATION LEVEL ON CURE STRENGTH BUTYL ADHERED EPDM T-PEEL JOINTS.....	4559
EFFECT OF INTERIOR MASS SURFACES ON SPACE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE.....	3021
EFFECT OF INTERIOR MASS SURFACES ON THE SPACE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE.....	3039
EFFECT OF SHORT CYCLING AND FAN DELAY ON THE EFFICIENCY OF A MODIFIED RESIDENTIAL HEAT PUMP.....	2912
EFFECT OF VEILING REFLECTIONS ON VISION OF COLORED OBJECTS.....	4396
EFFECT OF VOLATILE ORGANIC REGULATIONS ON THE SELECTION AND USE OF COATINGS INCLUDED IN AFM 85-3.....	4060
EFFECT OF WALL MASS ON PEAK SPACE SENSIBLE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE.....	3027
EFFECT OF WALL MASS ON THE ANNUAL SPACE HEATING AND COOLING LOADS OF RESIDENCES.....	4218
EFFECTS OF RESEARCH ON BUILDING PRACTICE.....	4724
EFFECTS OF TEMPERATURE AND STRESS ON THE TIME-TO-FAILURE OF EPDM T-PEEL JOINTS.....	4048
ELECTROCHEMICAL TECHNIQUE FOR RAPIDLY EVALUATING PROTECTIVE COATINGS ON METALS.....	4513
ENERGY ANALYSIS OF HEAT PUMPS.....	4438
ENERGY RATING OF REFRIGERATORS WITH VARIABLE DEFROST CONTROLS.....	4263
ENERGY TRANSFER MECHANISM IN SPT.....	4651
ENGINEERING ASPECTS OF THE 1985 MEXICO EARTHQUAKE.....	4196

ENVIRONMENTAL EVALUATION OF THE PORTLAND EAST FEDERAL OFFICE BUILDING PREOCCUPANCY AND EARLY OCCUPANCY RESULTS.....	4564
ENVIRONMENTAL LOAD DIRECTION AND RELIABILITY BOUNDS.....	3068
EPOXY IMPREGNATION OF HARDENED CEMENT PASTES FOR CHARACTERIZATION OF MICROSTRUCTURE.....	4206
EPOXY IMPREGNATION OF HARDENED CEMENT FOR MICROSTRUCTURAL CHARACTERIZATION.....	4492
EPOXY IMPREGNATION PROCEDURE FOR HARDENED CEMENT SAMPLES.....	4334
ERGONOMICS IN THE AUTOMATED OFFICE.....	4077
ESTIMATING 3-D HEAT LOSS FROM RECTANGULAR BASEMENTS AND SLABS USING 2-D CALCULATIONS.....	4149
ESTIMATING INTERROOM CONTAMINANT MOVEMENT.....	4431
ESTIMATION OF DYNAMIC GREEN'S FUNCTIONS FOR LARGE SPACE STRUCTURES BY PULSE PROBING AND DECONVOLUTION.....	4530
EVALUATING OFFICE LIGHTING ENVIRONMENTS: SECOND LEVEL ANALYSIS.....	4555
EVALUATION OF A STANDARD DEVICE FOR CALIBRATING CALORIMETER TEST ROOMS..	4180
EVALUATION OF AERODYNAMIC DRAG AND TORQUE FOR EXTERNAL TANKS IN LOW EARTH ORBIT.....	4597
EVALUATION OF COLORS FOR HIGHWAY APPLICATIONS.....	4478
EVALUATION OF FUMED-SILICA INSULATION FOR A THERMAL CONDUCTIVITY STANDARD REFERENCE MATERIAL.....	4468
EVALUATION OF TEST METHODS FOR MEASURING THE BOND OF PORTLAND CEMENT-BASED REPAIR MATERIALS TO CONCRETE.....	4668
EVALUATION OF TEST METHODS FOR MEASURING THE BOND STRENGTH OF PORTLAND CEMENT BASED REPAIR MATERIALS TO CONCRETE.....	4677
EVALUATION OF THE VARIATION IN THERMAL PERFORMANCE IN A $Na_2SO_4 \cdot 10H_2O$ PHASE CHANGE SYSTEM.....	118
EVALUATION OF THE WORKING ENVIRONMENT AT SELECTED U.S. ARMY FIELD STATIONS; SUGGESTIONS FOR IMPROVEMENT.....	4464
EVALUATION OF THERMAL PROBE METHOD FOR ESTIMATING THE HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS.....	4308
EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD AIR CONDITIONER.....	4503
EVISM - AN EVAPORATOR MODEL ACCOUNTING FOR REFRIGERANT AND ONE DIMENSIONAL AIR DISTRIBUTION.....	4583
EXECUTIVE SUMMARY - CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES.....	4488
EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT FLUX DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE	3106
EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT FLUX DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE.....	4075
EXPERIMENTAL AND ANALYTICAL INVESTIGATIONS ON PUNCHING SHEAR OF THICK, LIGHTWEIGHT CONCRETE PLATES AND SHELLS.....	4601
EXPERIMENTAL EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD AIR CONDITIONER.....	4397
EXPERIMENTAL GLASS FAILURE DATA AND EQUIVALENT ONE-MINUTE LOADS.....	4272
EXPERIMENTAL INVESTIGATION AND MODELING OF FLOW RATE OF REFRIGERANT 22 THROUGH SHORT TUBE RESTRICTOR.....	4550

EXPERIMENTAL MEASUREMENTS OF CONDENSATION ON VERTICAL PLATES WITH ENHANCED FINS.....	4403
EXPERIMENTAL PLAN FOR INVESTIGATION OF LIGHTING AND HVAC INTERACTIONS...	4269
EXPERIMENTAL STUDY OF GUSSETED CONNECTIONS.....	4595
EXPERIMENTAL STUDY OF GUSSETED CONNECTIONS FOR LATERALLY BRACED STEEL BUILDINGS.....	4499
EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR PREDICTING MOISTURE TRANSFER IN ATTICS.....	2902
EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR PREDICTING WATER VAPOR SORPTION AT INTERIOR BUILDING SURFACES.....	4587
EXPERT SYSTEM FOR CONCRETE CONSTRUCTION.....	4316
EXPERT SYSTEM FOR DIAGNOSING AIR LEAKAGE AND MOISTURE PROBLEMS IN BUILDINGS.....	4270
EXPERT SYSTEM FOR SELECTING CONCRETE CONSTITUENTS.....	4224

F

FAA LIRS STRUCTURAL COMPONENT TESTS.....	4816
FACTORS RELATED TO THE PERFORMANCE OF CONCRETE REPAIR MATERIALS.....	4259
FENESTRATION DESIGN FOR BUILDING ATRIA.....	4181
FENESTRATION DESIGN FOR OFFICE AND RESIDENTIAL BUILDINGS.....	4152
FIELD EVALUATION OF THE QUALITY OF NEWLY FORMED ADHESIVE- BONDED SEAMS OF SINGLE-PLY MEMBRANES.....	4243
FIELD MEASUREMENT OF THERMAL AND SOLAR/OPTICAL PROPERTIES OF INSULATING GLASS WINDOWS.....	4156
FIELD MEASUREMENTS OF HEAT FLOW THROUGH WINDOWS.....	4214
FIELD PERFORMANCE OF THREE RESIDENTIAL HEAT PUMPS IN THE HEATING MODE...	4148
FIELD TESTING OF ADHESIVE-BONDED SEAMS OF RUBBER ROOFING MEMBRANES.....	4547
FINAL EVALUATION OF A COLOR CALIBRATOR FOR A RADAR REMOTE WEATHER DISPLAY SYSTEM.....	3040
FINITE ELEMENT ANALYSIS OF THE PULLOUT TEST USING A NONLINEAR DISCRETE CRACKING APPROACH.....	4194
FINITE ELEMENT STUDIES OF TRANSIENT WAVE PROPAGATION.....	4351
FINITE ELEMENT STUDY OF THE INTERACTION OF TRANSIENT STRESS WAVES WITH PLANAR FLAWS.....	4348
FINITE ELEMENT STUDY OF TRANSIENT WAVE PROPAGATION IN PLATES.....	4347
FLAME ROLL-OUT STUDY FOR GAS FIRED WATER HEATERS.....	4405
FLAW DETECTION IN CONCRETE AND HETEROGENOUS MATERIALS USING TRANSIENT STRESS WAVES.....	4352
FLAW DETECTION IN CONCRETE BY FREQUENCY SPECTRUM ANALYSIS OF IMPACT-ECHO WAVEFORMS.....	3070
FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES.....	4378
FLOW COEFFICIENTS FOR INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES.....	4125
FORMING ECONOMICAL CONCRETE BUILDINGS PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE.....	4330
FRACTAL-BASED DESCRIPTION OF THE ROUGHNESS OF BLASTED STEEL PANELS.....	2989

FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: FIELD EVALUATION OF PROTOTYPE TEST DEVICES.....	4622
FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: LABORATORY EVALUATION OF THE PROTOTYPE TEST DEVICES.....	4474
FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: THE BASIS FOR A FIELD TEST METHOD.....	4244
FTIR SPECTROSCOPIC STUDIES OF THE DEGRADATION OF ONE-COMPONENT POLYURETHANE PROTECTIVE COATINGS ON STEEL.....	4509
FURTHER INVESTIGATION OF THE EFFECT OF APPLICATION PARAMETERS ON ADHESIVE BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES.....	4520

G

GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS.....	4157
GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS.....	4617
GLOBAL MODEL FOR BUILDING-PROJECT INFORMATION: ANALYSIS OF CONCEPTUAL STRUCTURES.....	4294
GUIDE SPECIFICATIONS AND REFERENCE SPECIFICATION SYSTEM.....	4581
GUIDELINES AND PROCEDURES FOR IMPLEMENTATION OF EXECUTIVE ORDER ON SEISMIC SAFETY.....	4451
GUIDELINES FOR IDENTIFICATION AND MITIGATION OF SEISMICALLY HAZARDOUS EXISTING FEDERAL BUILDINGS.....	4596
GUIDELINES FOR THE PREVENTION OF TRAFFIC NOISE PROBLEMS.....	2706
GUIDELINES FOR THE SPECIFICATION AND VALIDATION OF IGES APPLICATION PROTOCOLS.....	4423
GYPSUM WALLBOARD FORMALDEHYDE SORPTION MODEL.....	4470

H

HEAT TRANSFER ANALYSIS OF METAL FASTENERS IN LOW-SLOPE ROOFS.....	3024
HEATS OF DEHYDRATION AND SPECIFIC HEATS OF COMPOUNDS FOUND IN CONCRETE AND THEIR POTENTIAL FOR ENERGY STORAGE.....	2985
HELICAL PROBE TESTS: INITIAL TEST CALIBRATION.....	4517
HELICAL PROBE TESTS FOR SHALLOW SOIL EXPLORATION.....	3080
HEURISTIC ANALYSIS OF VON KRIES COLOR CONSTANCY.....	3022
HORIZONTAL FLOW BOILING HEAT TRANSFER EXPERIMENTS WITH A MIXTURE OF R22/R114.....	4253
HORIZONTAL FLOW BOILING HEAT TRANSFER USING REFRIGERANTS MIXTURES.....	4483
HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS.....	4407
HURRICANE CLIMATOLOGY.....	4533
HVACSIM+ BUILDING SYSTEMS AND EQUIPMENT SIMULATION PROGRAM - BUILDING LOADS CALCULATION.....	3089
HYDRATION OF TRICALCIUM ALUMINATE AND TETRACALCIUM ALUMINOFERRITE IN THE PRESENCE OF GYPSUM.....	2993
HYDRODYNAMIC FORCES ON VERTICAL CYLINDERS AND THE LIGHTHILL CORRECTION..	4578

I

IDENTIFICATION OF DYNAMIC GREEN'S FUNCTIONS IN STRUCTURAL NETWORKS.....	4532
IDENTIFICATION OF DYNAMIC GREEN'S FUNCTIONS IN STRUCTURAL NETWORKS.....	4655
ILLUMINATION CONDITIONS AND TASK VISIBILITY IN DAYLIT SPACES.....	4267
IMAGING AND ASSESSMENT OF CORROSION ON COATED AND UNCOATED STEEL.....	4089
IMPACT OF REFRIGERANT PROPERTY UNCERTAINTIES ON PREDICTION OF VAPOR COMPRESSION CYCLE PERFORMANCE.....	3113
IMPACT-ECHO: A METHOD FOR FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES.....	4350
IMPACT-ECHO METHOD: DETECTING HONEYCOMBING, THE DEPTH OF SURFACE-OPENING CRACKS, AND UNGROUTED DUCTS.....	4343
IMPLICATIONS OF COMPUTER-BASED SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR ADVANCING CEMENT RESEARCH.....	4507
IMPLICATIONS OF COMPUTER-BASED SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR CEMENT RESEARCH.....	3011
IMPLICATIONS OF PHASE EQUILIBRIA ON HYDRATION IN THE TRICALCIUM SILICATE-WATER AND THE TRICALCIUM ALUMINATE-GYPSUM WATER SYSTEMS...	2994
IMPULSE RESPONSE FUNCTIONS FOR ELASTIC STRUCTURAL NETWORKS WITH RIGID BODY DEGREES OF FREEDOM.....	4640
IN SITU MEASUREMENTS OF CHLORIDE ION AT THE COATING/METAL INTERFACE.....	4627
IN SITU MEASUREMENTS OF MOLECULAR BEHAVIOR AT THE STEEL/OPAQUE COATINGS INTERFACE USING FTIR MULTIPLE REFLECTION (ETC.).....	4680
INELASTIC BEHAVIOR OF 1/6 SCALE MODEL BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING.....	4357
INELASTIC BEHAVIOR OF FULL-SCALE BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING.....	4656
INELASTIC BEHAVIOR OF FULL-SCALE BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING.....	4453
INFLUENCE OF CEMENT ALKALI DISTRIBUTION ON EXPANSION DUE TO ALKALI-SILICA REACTION.....	2987
INFLUENCE OF CEMENT PORE SOLUTION ON ALKALI-SILICA REACTION.....	4241
INFLUENCE OF CEMENT PORE SOLUTION ON EXPANSION.....	4605
INFLUENCE OF HORIZONTAL REINFORCEMENT ON SHEAR RESISTANCE OF CONCRETE BLOCK MASONRY WALLS.....	4642
INFLUENCE OF HORIZONTAL REINFORCEMENT ON THE SHEAR RESISTANCE OF CONCRETE BLOCK MASONRY WALLS.....	4729
INFLUENCE OF MORTAR BEDDING ON MASONRY PRISM BEHAVIOR.....	4276
INFLUENCE OF SELECTED RETARDERS ON THE HYDRATION OF A CEMENT COMPOUND: IMPLICATION ON THE SETTING TIME IN PORTLAND CEMENT.....	4020
INFORMATION MANAGEMENT FOR THE TENTH TRIENNIAL CIB CONGRESS.....	4099
INITIAL GRAPHICS EXCHANGE SPECIFICATION (IGES) VERSION 4.0.....	4456
INITIAL INVESTIGATION OF THE PROPERTIES AND PERFORMANCE OF MAGNESIUM OXYCHLORIDE-BASED FOAM THERMAL INSULATION.....	4518
INITIAL TEST RESULTS AND TEST PLAN FOR DIFFERENTIAL TEMPERATURE CONTROLLERS USED IN SOLAR ENERGY SYSTEMS.....	3115

INORGANIC COMPOUNDS FOR PASSIVE SOLAR ENERGY STORAGE -- SOLID STATE DEHYDRATION MATERIALS AND HIGH SPECIFIC HEAT MATERIALS.....	2984
INSTRUMENTATION OF THE SHENYANG T.V. TOWER.....	4577
INTEGRAL MASS BALANCES AND PULSE INJECTION TRACER TECHNIQUES.....	4447
INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE AND OTHER MATERIALS.....	4209
INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE SCIENCE AND TECHNOLOGY.....	4315
INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY.....	4687
INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY.....	4688
INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS.....	4716
INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS.....	4692
INTER-ROOM AIR FLOW BY NATURAL CONVECTION VIA A DOORWAY OPENING.....	2929
INTERACTION OF BUILDING LIGHTING, HEATING AND COOLING SYSTEMS.....	4586
INTERACTION OF LIGHTING, HEATING, AND COOLING SYSTEMS IN BUILDINGS - INTERIM REPORT.....	4459
INTERFACE BOND STRENGTH OF ORGANIC FILMS ON METALS USING REFLECTION/ABSORPTION FTIR.....	4512
INTERIM CRITERIA FOR MODIFIED BITUMEN.....	4669
INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS.....	4472
INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS: A SUMMARY REPORT.....	4621
INTERIM GUIDELINE FOR WORKSTATION DESIGN.....	4588
INTERIM PROCEDURE TO MEASURE THE THERMAL PERFORMANCE OF WINDOW SYSTEMS..	4212
INTERIM SURVEY OF SELECTED MILITARY BUILDING ENVIRONMENT: A RESEARCH APPROACH.....	4236
INTERNATIONAL HARMONIZATION OF STANDARDS: DONE WITH OR WITHOUT US.....	4722
INTERPRETATION OF PROBE PENETRATION TEST RESULTS SILVER SPRING METRO CENTER 1.....	4734
INTERPRETATION OF THE EFFECTS OF RETARDING ADMIXTURES ON PASTES OF C3A PLUS GYPSUM, AND PORTLAND CEMENT.....	4001
INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURE CONFIGURATIONS.....	3119
INTRODUCTION TO ACI 306.1-87: SPECIFICATION FOR COLD WEATHER CONCRETING.	4415
INTRODUCTION TO SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION.....	4132
INVESTIGATION INTO THE ASHLAND OIL STORAGE TANK COLLAPSE ON JANUARY 2, 1988.....	4449
INVESTIGATION OF A WASHINGTON DC OFFICE BUILDING.....	4232
INVESTIGATION OF HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS.....	4127
INVESTIGATION OF INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES....	4211
INVESTIGATION OF L'AMBIANCE PLAZA BUILDING COLLAPSE IN BRIDGEPORT, CONNECTICUT.....	4321
INVESTIGATION OF THE COLLAPSE OF L'AMBIANCE PLAZA.....	4323
INVESTIGATION OF THE COLLAPSE OF L'AMBIANCE PLAZA.....	4341
INVESTIGATION OF THE CORROSION OF ALUMINUM STANDING-SEAM ROOFING AT AN ARMY FACILITY.....	4058
INVESTIGATION OF THE USE OF NONDESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF SINGLE-PLY ROOFING MEMBRANES.....	4053

K

KNOWLEDGE BASED SYSTEM FOR DURABLE REINFORCED CONCRETE.....	4067
KNOWLEDGE-BASED FRONT-END INPUT GENERATING PROGRAM FOR BUILDING SYSTEM SIMULATION.....	4440

L

LABORATORY AND FIELD STUDIES OF THE IMPACT-ECHO METHOD FOR FLAW DETECTION IN CONCRETE.....	4360
LARGE SCALE BRIDGE COLUMN TESTS: A PROGRESS REPORT.....	4197
LIGHTING FOR COLOR VISION.....	4266
LIGHTING QUALITY AND LIGHT SOURCE SIZE.....	4565
LIGHTS OF NEW YORK HARBOR.....	4465
LIMIT STATE PROBABILITIES FOR WOOD STRUCTURAL MEMBERS.....	3083
LINEAR OPPONENT-COLORS MODEL OPTIMIZED FOR BRIGHTNESS PREDICTION.....	2811
LITERATURE REVIEW OF POST-INSTALLED ANCHORAGE IN CONCRETE.....	4374
LITERATURE REVIEW OF STRENGTHENING METHODOLOGIES OF EXISTING STRUCTURES.	4367
LOADS - CHAPTER 2, BUILDING STRUCTURAL DESIGN HANDBOOK.....	4355

M

MACHINE REPRESENTATION OF STANDARDS.....	3020
MAGNESIUM OXYCHLORIDE CEMENT-BASED FORM INSULATION: A LITERATURE SURVEY.	2997
MAINTENANCE AND IMPLEMENTATION OF AN EXPERT SYSTEM FOR DURABLE CONCRETE.....	4098
MANUAL FOR THE CEMENT HYDRATION SIMULATION MODEL.....	4626
MASS SPECTROMETRIC INVESTIGATION OF THE THERMAL OXIDATIVE REACTIVITY OF ETHYLENE GLYCOL.....	2996
MAT FOUNDATIONS FOR OFFSHORE STRUCTURES IN ARCTIC REGIONS.....	4500
MEASURED PERFORMANCE OF RESIDENTIAL WATER HEATERS USING EXISTING AND PROPOSED DEPARTMENT OF ENERGY TEST PROCEDURES.....	4482
MEASUREMENT OF AIR VELOCITY COMPONENT OF NATURAL CONVECTIVE INTERZONAL AIR-FLOW.....	4250
MEASUREMENT OF BUOYANCY - INDUCED FLOW USING A SELF-HEATED THERMISTOR FLOWMETER.....	4097
MEASUREMENT OF INTERZONAL HEAT AND MASS TRANSFER BY NATURAL CONVECTION..	4106
MEASUREMENT OF STRUCTURAL DEFLECTIONS.....	4574
MEASUREMENT OF THE SETTING TIME AND STRENGTH OF CONCRETE BY THE IMPACT-ECHO METHOD.....	4349
MEASUREMENT OF THERMAL CHARACTERISTICS OF TWO OFFICE BUILDINGS.....	3029
MEASUREMENT TECHNIQUES FOR HORIZONTAL FLOW BOILING HEAT TRANSFER WITH PURE AND MIXED REFRIGERANTS.....	4444
MEASURING AIRFLOW RATES WITH PULSE TRACER TECHNIQUES.....	4486
MECHANICAL AND PHYSICAL PROPERTIES OF COQUINA STONE FROM CASTILLO DE SAN MARCOS NATIONAL MONUMENT.....	4258

METHOD FOR CHARACTERIZING THE DYNAMIC PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX.....	4220
METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS CONTAMINANT REMOVAL FILTERS.....	4584
METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS CONTAMINANT REMOVAL DEVICES.....	4260
METHOD TO MEASURE THE TENSILE BOND STRENGTH BETWEEN TWO WEAKLY-CEMENTED SAND GRAINS.....	4676
METHODS FOR COMPARING THE PERFORMANCE OF PURE AND MIXED REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE.....	4210
METHODS FOR MEASURING LEAD CONCENTRATIONS IN PAINT FILMS.....	4707
MICROELECTRODE TECHNIQUE FOR MEASURING CHLORIDE ION IN COATING BLISTERS AND CORROSION POTENTIAL AT THE COATING/METAL INTERFACE.....	4623
MICROSTRUCTURAL ANALYSIS OF HARDENED ALITE PASTE: PART I POROSITY.....	4018
MICROSTRUCTURAL ANALYSIS OF HARDENED ALITE PASTE: PART II, MICROSCOPY AND REACTION PRODUCTS.....	4017
MICROSTRUCTURAL ASPECTS OF THE FRACTURE OF HYDRATED CEMENT.....	4548
MICROSTRUCTURAL FEATURE WHICH MAY BE RELATED TO STRENGTH OF CONCRETE, A	4014
MICROSTRUCTURE AND FRACTURE AT THE CEMENT PASTE-AGGREGATE INTERFACE.....	4333
MINIMUM LIFE CYCLE COST HEAT LOSSES FOR SHALLOW TRENCH UNDERGROUND HEAT DISTRIBUTION SYSTEMS.....	3034
MINIMUM SHEAR REINFORCEMENT IN BEAMS WITH HIGHER STRENGTH CONCRETE.....	4652
MIXING RULE FOR LIQUID VISCOSITIES OF REFRIGERANT MIXTURES.....	4554
MODEL FOR PARTICLE SIZE AND PHASE DISTRIBUTIONS IN CEMENT.....	4249
MODELLING OF A HEAT PUMP CHARGED WITH A NONAZEOTROPIC REFRIGERANT MIXTURE.....	2927
MODELLING WINDOW OPTICS FOR BUILDING ENERGY ANALYSIS.....	3033
MODELLING REFRIGERANT MIXTURES WITH HARD-SPHERE EQUATIONS OF STATE.....	4387
MULTI-ZONE DISPERSAL ANALYSIS BY ELEMENT ASSEMBLY.....	4386

N

NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY STUDY.....	4059
NBS MULTI-ZONE IAQ MODEL.....	4455
NBS SOLAR COLLECTOR RELIABILITY/DURABILITY TEST PROGRAM: SUMMARY OF RESULTS AND RECOMMENDATIONS FOR COLLECTOR TESTING.....	2990
NEW STATISTICAL METHOD FOR PREDICTION OF CONCRETE STRENGTH FROM IN-PLACE TESTS.....	4199
1988 REVISION OF ANSI A58.1.....	4817
NON-DESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF SINGLE-PLY ROOFING MEMBRANES.....	4527
NONDESTRUCTIVE ASSESSMENT OF CONCRETE STRUCTURES USING THE IMPACT-ECHO METHOD.....	4375
NONDESTRUCTIVE METHODS FOR INSPECTING SINGLE PLY ROOFING SEAMS.....	4666

O

OFFICE DESIGN MEASUREMENTS FOR PRODUCTIVITY - A RESEARCH OVERVIEW.....	4433
OIL STORAGE TANK COLLAPSE AT ASHLAND FLOREFFE TERMINAL.....	4366
ON ESTABLISHING FUNCTIONAL RELATIONSHIPS BETWEEN REACTION MECHANISMS AND ENGINEERING PROPERTIES OF CEMENT-BASED SYSTEMS.....	4042
ON REACTION BETWEEN SILICON AND NITROGEN PART II MICROSTRUCTURE.....	4205
OUTLINE OF AN EXPERT SYSTEM APPROACH TO RESIDENTIAL AIR INFILTRATION....	2897
OVERVIEW OF IGES/PDES TESTING PROJECT.....	4618

P

PART LOAD SEASONAL EFFICIENCY TEST PROCEDURE EVALUATION OF FURNACE CYCLE CONTROLLERS.....	3120
PERFORMANCE OF A CONVENTIONAL RESIDENTIAL SIZED HEAT PUMP OPERATING WITH A NONAZEOTROPIC BINARY REFRIGERANT MIXTURE.....	3121
PERFORMANCE OF INSTANTANEOUS GAS-FIRED WATER HEATERS.....	4215
PERFORMANCE MEASUREMENTS OF INFRARED IMAGING SYSTEMS USED TO ASSESS THERMAL ANOMALIES.....	3035
PERFORMANCE TEST FOR GRAFFITI REMOVERS.....	4066
PERIMETER SAFETY NET PROJECTION REQUIREMENTS.....	3077
PERIODIC HEAT CONDUCTION IN ENERGY STORAGE CYLINDERS WITH CHANGE OF PHASE.....	2943
PERIODIC, QUASIPERIODIC, AND CHAOTIC MOTIONS OF FORCED AND AUTONOMOUS GALLOPING OSCILLATORS.....	4637
PERMEABILITY, DIFFUSIVITY, AND MICROSTRUCTURAL PARAMETERS: A CRITICAL REVIEW.....	4701
PLAN FOR A DESIGN STUDY FOR A NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY.....	4370
POINT SOURCE - POINT RECEIVER TECHNIQUE FOR FLAW DETECTION IN CONCRETE.....	4359
PORE STRUCTURE OF CONCRETE AND FREEZING VULNERABILITY OF HIGH-PERFORMANCE CONCRETE.....	4699
PORE WATER PRESSURE BUILDING IN CLEAN SANDS BECAUSE OF CYCLIC STRAINING.	4641
PORTLAND CEMENTS, BLENDED CEMENTS AND MORTARS.....	4703
POST: PLANT OPERATIONS SIMULATION TEMPLATE.....	4166
POST-OCCUPANCY EVALUATION OF SEVERAL U.S. GOVERNMENT BUILDINGS.....	4661
POTENTIAL APPLICATIONS OF A SEQUENTIAL CONSTRUCTION ANALYZER.....	4226
POTENTIAL METHODS FOR MEASURING AND DETECTING LEAD IN EXISTING PAINT FILMS: A LITERATURE REVIEW.....	4710
POZZOLAN PROGRAMS OF THE CEMENT AND CONCRETE REFERENCE LABORATORY.....	4227

PREDICTING FORMALDEHYDE CONCENTRATIONS IN MANUFACTURED HOUSING RESULTING FROM MEDIUM-DENSITY FIBERBOARD.....	4430
PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS.....	4061
PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS.....	3012
PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS.....	4846
PREDICTION OF SERVICE LIFE OF CONSTRUCTION AND OTHER MATERIALS.....	4173
PRELIMINARY PERFORMANCE CRITERIA FOR THE BOND OF PORTLAND-CEMENT AND LATEX-MODIFIED CONCRETE OVERLAYS.....	4708
PRELIMINARY DYNAMIC ANALYSES OF THE MINISTRY OF AGRICULTURE BUILDING....	4195
PRELIMINARY PERFORMANCE CRITERIA FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES.....	4639
PRELIMINARY PERFORMANCE CRITERIA FOR STONE TREATMENTS FOR THE UNITED STATES CAPITOL.....	4207
PROBABILITY BASED LOAD COMBINATION CRITERIA FOR DESIGN OF SHEAR WALL STRUCTURES.....	3069
PROCEDURE FOR MEASURING THE DYNAMIC THERMAL PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX.....	4437
PROCEDURES FOR SPRINKLER INSTALLATION ON SURFACES WITH FIREPROOFING MATERIALS.....	4287
PROCEEDINGS OF THE CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES.....	4313
PROCESS FOR CREATING A NATIONAL BUILDING RESEARCH AGENDA.....	4497
PRODUCT MODELLING FOR BUILDINGS FOR DATA EXCHANGE STANDARDS: FROM IGES TO PDES/STEP AND BEYOND.....	4538
PROGRESS TOWARD A GENERAL ANALYTICAL METHOD FOR PREDICTING INDOOR AIR POLLUTION IN BUILDINGS - INDOOR AIR QUALITY MODELING PHASE III REPORT.....	4391
PROGRESSIVE COLLAPSE: US OFFICE BUILDING IN MOSCOW.....	4382
PROPOSED EXPERIMENTAL PROGRAM FOR LARGE-SCALE BRACED FRAME CONNECTIONS..	3081
PROPOSED METHODOLOGY FOR RATING AIR-SOURCE HEAT PUMPS THAT HEAT, COOL, AND PROVIDE DOMESTIC WATER HEATING.....	4607
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURE FOR THE ARCTIC: RESULTS OF EXPERIMENTAL STUDY.....	4569
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: 1/25-SCALE MODEL STUDY.....	4312
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: LITERATURE REVIEW.....	4311
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE STRUCTURES FOR THE ARCTIC: PLANNING OF EXPERIMENTAL STUDY.....	4275

Q

QUANTIFICATION OF HEAT LOSSES THROUGH STRUCTURAL SUPPORTS FOR SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS.....	4643
QUANTITATIVE CHARACTERIZATION OF THE MICROSTRUCTURE OF HARDENED TRICALCIUM SILICATE PASTE USING COMPUTER IMAGE.....	4046
QUANTITATIVE STUDIES OF COATINGS ON STEEL USING REFLECTION ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY.....	4515

R

RATING ELECTRIC HEAT PUMP PERFORMANCE.....	4073
RATING OF MIXED SPLIT RESIDENTIAL AIR CONDITIONERS.....	4384
RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING MODE.....	3134
RATIONALE AND PLAN FOR CENTER FOR BUILDING TECHNOLOGY RESEARCH TO IMPROVE INDOOR AIR QUALITY.....	2899
RECOMMENDED PRACTICES FOR U.S. POSTAL SERVICE ROOFING PROGRAM.....	2999
RECOMMENDED PROCEDURE FOR RATING AND TESTING OF VARIABLE SPEED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS.....	4389
REFLECTION/ABSORPTION FTIR OF THE DEGRADATION OF PROTECTIVE COATINGS ON MILD STEEL.....	4674
REFLECTION/ABSORPTION FTIR SPECTRAL CHARACTERIZATION OF THICK AND THIN CROSSLINKED EPOXY FILMS ON STEEL SUBSTRATES.....	4508
REFLECTIONS ON THE PRESENTATIONS - TECHNOLOGY AND THE FUTURE OF THE US CONSTRUCTION INDUSTRY.....	4102
REFRIGERANT MIXTURES FOR HEAT PUMPS.....	4072
REINFORCEMENT BUCKLING IN REINFORCED CONCRETE FLEXURAL MEMBERS.....	4371
RELATION OF CO2 CONCENTRATION TO OFFICE BUILDING VENTILATION.....	4543
RELATIONSHIP BETWEEN APPEARANCE AND PROTECTIVE DURABILITY OF COATINGS: A LITERATURE REVIEW.....	4545
RELIABILITY OF COMPLIANT DRILLING AND PRODUCTION PLATFORMS.....	3079
RELIABILITY-BASED APPROACH TO SERVICE LIFE PREDICTION.....	4743
REPORT OF ROOF INSPECTION: DELAMINATION OF ADHESIVE-BONDED SEAMS AT AN ARMY FACILITY.....	4519
REPORT OF ROOF INSPECTIONS: CHARACTERIZATION OF NEWLY FABRICATED ADHESIVE-BONDED SEAMS AT AN ARMY FACILITY.....	4694
REPORT TO CONGRESS ON THE STRUCTURAL ASSESSMENT OF THE NEW US EMBASSY OFFICE BUILDING IN MOSCOW.....	4261
RESEARCH AS THE TECHNICAL BASIS FOR STANDARDS USED IN BUILDING CODES....	4582
RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS.....	4172
RESULTS OF A SURVEY OF THE PERFORMANCE OF EPDM ROOFING AT ARMY FACILITIES.....	4667
REVIEW OF AUTOCLAVED AERATED CONCRETE PRODUCTS.....	4286
REVIEW OF NONDESTRUCTIVE EVALUATION METHODS APPLICABLE TO CONSTRUCTION MATERIALS AND STRUCTURES.....	4314
REVIEW OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND TENSILE FATIGUE TESTS OF BITUMINOUS ROOFING MEMBRANES.....	4523

REVISED INTERIM DESIGN GUIDELINE FOR AUTOMATED OFFICES.....	3038
REVISED UNITARY HEAT PUMP SPECIFICATION FOR MILITARY FAMILY HOUSING.....	4400
REVISION 1 - RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING MODE.....	4566
RISKS OF BLISTERING OF BUILT-UP ROOFING MEMBRANES APPLIED TO POLYURETHANE FOAM INSULATION.....	2808
ROOFER INTERVIEW.....	4057
ROOFING PERFORMANCE: 9TH CONFERENCE ON ROOFING TECHNOLOGY.....	4632
ROOM-TEMPERATURE THERMAL CONDUCTIVITY MEASUREMENTS OF FUMED-SILICA INSULATION FOR A STANDARD REFERENCE MATERIAL.....	4414
ROOM-TEMPERATURE THERMAL RESISTANCE MEASUREMENTS OF NEW AND EXISTING MATERIALS FOR SHIPBOARD AIR DUCT SYSTEMS.....	4463
ROUGHNESS MEASURES OF BLASTED STEEL SURFACES REMOTELY IMAGED WITH A THERMOGRAPHIC CAMERA.....	4049
RULE BASED DIAGNOSTIC METHOD FOR HVAC FAULT DETECTION.....	4540

S

SAFETY COLOR APPEARANCE UNDER DIFFERENT ILLUMINANTS.....	4154
SAFETY COLOR APPEARANCE UNDER SELECTED LIGHT SOURCES.....	4158
SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION PROGRAM: USER MANUAL.....	4116
SCREENING PROCEDURES FOR DETECTING LEAD IN EXISTING PAINT FILMS: A LITERATURE REVIEW.....	4562
SEASONAL PERFORMANCE EVALUATION PROCEDURES FOR DOMESTIC ELECTRIC DRIVEN HEAT PUMPS AND AIR CONDITIONERS.....	4548
SELF-HEATED THERMISTOR FLOWMETER FOR FLOW MEASUREMENT IN A THERMOSYPHON SOLAR HOT WATER SYSTEM.....	4096
SEMANTIC MODELING FOR OBJECT-ORIENTED AND KNOWLEDGE-BASED INFORMATION SYSTEMS.....	4421
SEMI-QUANTITATIVE CONDITION ASSESSMENT OF PAINTS AND SUBSTRATE SURFACES.....	3006
SENSITIVITY STUDY OF THE REFRIGERANT PROPERTY UNCERTAINTIES ON THE VAPOR COMPRESSION CYCLE.....	4216
SENSORS AND MEASUREMENTS TECHNIQUES FOR ASSESSING STRUCTURAL PERFORMANCE.....	4736
SERVICE LIFE OF CONCRETE.....	4580
SERVICEABILITY LIMIT STATES: DEFLECTION.....	3064
SET TIME CONTROL STUDIES OF POLYMER CONCRETE.....	4561
SETTING TIME AND STRENGTH OF CONCRETE USING THE IMPACT-ECHO METHOD.....	4358
SIMILITUDE STUDIES OF PROTOTYPE AND 1/6-SCALE MODEL BRIDGE COLUMNS UNDER REVISED CYCLIC LOADING.....	4495
SIMPLIFIED MODEL FOR PREDICTING CUMULATIVE SENSIBLE COOLING LOADS.....	4265
SIMULATION OF A LARGE OFFICE BUILDING SYSTEM USING THE HVACSIM+ PROGRAM.	4296
SIMULATION OF MICROSTRUCTURE DEVELOPMENT DURING THE HYDRATION OF CEMENT COMPOUND.....	4016
SIMULATION STUDIES OF PROTOTYPE AND 1/6-SCALE MODEL BRIDGE COLUMNS UNDER REVERSED CYCLIC LOADING.....	4571

SIMULTANEOUS MEASUREMENTS OF INFILTRATION AND INTAKE IN AN OFFICE BUILDING.....	4213
SITE CHARACTERIZATION FOR RADON SOURCE POTENTIAL.....	4636
SOFTWARE CONCEPT FOR CHECKING ENGINEERING DESIGNS FOR CONFORMANCE WITH CODES AND STANDARDS.....	4663
SOURCE STRENGTHS AND SOURCES OF VOLATILE ORGANIC COMPOUNDS IN A NEW OFFICE BUILDING.....	4610
SPECIFICATIONS FOR THERMAL AND ENVIRONMENTAL EVALUATIONS OF ADVANCED-TECHNOLOGY OFFICE BUILDINGS.....	4151
STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION STUDIES.....	4604
STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION STUDIES.....	4603
STANDARD CEMENT CLINKERS FOR PHASE ANALYSIS.....	4589
STANDARD SPECIFICATION FOR CEMENTS AND THE ROLE IN THEIR DEVELOPMENT OF QUALITY ASSURANCE SYSTEMS FOR LABORATORIES.....	4671
STANDARDIZING ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS.....	4484
STANDARDS FOR BUILDING MATERIALS, EQUIPMENT, AND SYSTEMS.....	4427
STANDARDS FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES.....	4392
STANDARDS FOR SELECTING CORRECTIONAL FACILITY PRODUCTS AND SYSTEMS.....	4176
STATE-OF-THE-ART RESEARCH ASSESSMENT FOR RESIDENTIAL ATTIC CONDENSATION.....	2900
STATIC TEST ON ONE-THIRD SCALE IMPACT LIMITER.....	4635
STATISTICAL CHARACTERISTICS OF NEW PIN PENETRATION TEST.....	4450
STATISTICAL METHODS FOR IN-PLACE STRENGTH PREDICTIONS BY THE PULLOUT TEST.....	3139
STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: A NEW CONCEPT IN LOAD-ELONGATION TESTING.....	4525
STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: AN ALTERNATIVE TO THE TENSILE STRENGTH CRITERION.....	4052
STRATEGIES FOR IMPLEMENTING IGES (INITIAL GRAPHICS EXCHANGE SPECIFICATION) FOR THE OPERATIONS OF NAVFAC (NAVAL FACILITIES ENGINEERING COMMAND).....	4234
STRENGTH REDUCTION OF EPDM SINGLE-PLY SEAM JOINTS DUE TO SURFACE CONTAMINANTS.....	4560
STRUCTURAL ASSESSMENT OF THE NEW US EMBASSY OFFICE BUILDING IN MOSCOW...	4262
STRUCTURE: US OFFICE BUILDING IN MOSCOW.....	4380
STUDY OF REVERSE TORQUE RATIO IN THE HELICAL PROBE TEST.....	3085
STUDY OF THE PERFORMANCE OF RESIDENTIAL BOILERS FOR SPACE AND DOMESTIC HOT WATER HEATING.....	4557
SUGGESTED APPROACHES FOR REVISIONS OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND TENSILE FATIGUE STRENGTH TESTS OF BITUMINOUS MEMBRANES.....	4054
SUGGESTED RESEARCH TOPICS FOR THE CERL PROGRAM, EVALUATION OF ROOFING MATERIALS DEGRADATION PROCESSES.....	4537
SUMMARY OF CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES.....	3031
SYNTHESIS AND CHARACTERIZATION OF ETTRINGITE AND RELATED PHASES.....	2986

T

TECHNICAL AND ECONOMIC ANALYSIS OF CFC-BLOWN INSULATIONS AND SUBSTITUTES FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION.....	4616
TECHNIQUES FOR INVESTIGATING BUILDING INDOOR AIR QUALITY.....	4614
TECHNOLOGY FOR COMPETITIVENESS OF THE U.S. CONSTRUCTION INDUSTRY.....	4647
TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION.....	4439
TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION.....	4133
TENSILE PROPERTIES OF PLEATED SYNTHETIC ROPE.....	3084
TENSILE TEST TO MEASURE ADHESION BETWEEN OLD AND NEW CEMENT PASTE.....	4307
TERRESTRIAL TRENDS FOR BUILDING TECHNOLOGY IN NORTH AMERICA.....	4383
TEST OF ADHESIVE-BONDED SEAMS OF SINGLE-PLY RUBBER MEMBRANES.....	4524
TESTING CONFORMANCE TO ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS - PART 1: TEST ARCHITECTURE.....	4558
TESTS OF CONCRETE CORES FOR SILVER SPRING METRO CENTER 1.....	4733
THERMAL AND ECONOMIC ANALYSIS OF THREE HVAC SYSTEM TYPES IN A TYPICAL VA PATIENT FACILITY.....	4237
THERMAL CONDUCTIVITY OF FUMED SILICA BOARD AT ROOM TEMPERATURE.....	4585
THERMAL PERFORMANCE COMPARISONS FOR SOLAR HOT WATER SYSTEMS SUBJECTED TO VARIOUS COLLECTOR AND HEAT EXCHANGER FLOW RATES.....	3112
THERMAL RESISTANCE MEASUREMENTS AND CALCULATIONS OF AN INSULATED CONCRETE BLOCK WALL.....	4390
THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED AND SUPER INSULATED RESIDENTIAL WALLS USING A CALIBRATED HOT BOX.....	3026
THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED WALL USING A CALIBRATED HOT BOX.....	4192
THERMAL WAVE MICROSCOPY.....	4083
THERMAL WAVE MICROSCOPY IN CORROSION STUDIES.....	4511
THERMODYNAMIC EVALUATION OF REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE USING REDUCED PROPERTIES.....	4435
THERMODYNAMICS OF CALCIUM SILICATE HYDRATES AND THEIR SOLUTIONS.....	4222
THERMOPHYSICAL PROPERTY MEASUREMENT IN BUILDING INSULATION MATERIALS USING A SPHERICALLY-SHAPED, SELF-HEATED PROBE.....	4542
THERMOPHYSICAL PROPERTY NEEDS FOR THE ENVIRONMENTALLY-ACCEPTABLE HALOCARBON REFRIGERANTS.....	4536
TOWARD MODULAR SEMANTIC APPLICATION LAYER PROTOCOLS (MS-ALPS): COMMUNICATION BETWEEN HETEROGENEOUS INFORMATION SYSTEM USING ARTIFICIAL INTELLIGENCE PROGRAMMING TECH.....	3105
TRACER GAS TECHNIQUES FOR STUDYING BUILDING AIR EXCHANGE.....	4457
TRANSIENT IMPACT RESPONSE OF PLATES CONTAINING FLAWS.....	4346
TRANSIENT IMPACT RESPONSE OF THICK CIRCULAR PLATES.....	4345
TRANSIENT MOISTURE AND HEAT TRANSFER IN MULTILAYER NONISOTHERMAL WALLS--COMPARISON OF PREDICTED AND MEASURED RESULTS.....	4659
TRENDS FOR BUILDINGS TECHNOLOGY IN NORTH AMERICA PREPRINTS FIFTH CANADIAN BUILDING AND CONSTRUCTION CONGRESS.....	4593

U

U.S. SIDE: ACCOMPLISHMENTS AND CHALLENGES - PANEL ON WIND AND SEISMIC EFFECTS, PROCEEDINGS OF THE 20TH JOINT MEETING.....	4592
UNCERTAINTIES IN THE CROSS-SPECTRAL METHOD FOR ACOUSTIC INTENSITY UNDER SEMI-REVERBERANT CONDITIONS.....	2704
UPDATE: ASTM STANDARDS FOR SINGLE-PLY MEMBRANES.....	4055
USE OF ARTIFICIAL INTELLIGENCE PROGRAMMING TECHNIQUES FOR COMMUNICATION BETWEEN INCOMPATIBLE BUILDING INFORMATION SYSTEMS.....	4146
USE OF NONDESTRUCTIVE METHODS FOR INSPECTION OF SINGLE-PLY ROOFING MEMBRANES.....	4065
USE OF T-PEEL TESTS TO INVESTIGATE THE EFFECT OF APPLICATION PARAMETERS ON ADHESIVE-BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES.....	4223
USERS GUIDE TO POST - PLANT OPERATIONS SIMULATION TEMPLATE.....	4340
USING THE COMPUTER TO ANALYZE COATING DEFECTS.....	4047

V

VALIDATION OF MODELS FOR PREDICTING FORMALDEHYDE CONCENTRATIONS IN RESIDENCES DUE TO PRESSED-WOOD PRODUCTS.....	4620
VENTILATION AND AIR QUALITY INVESTIGATION OF THE MADISON BUILDING PHASE I REPORT.....	4767
VENTILATION AND AIR QUALITY INVESTIGATION OF U.S.G.S. BUILDING.....	4613
VENTILATION EFFECTIVENESS MEASUREMENTS IN AN OFFICE BUILDING.....	4155
VENTILATION RATES IN OFFICE BUILDINGS.....	4563
VERIFICATION OF EVAPORATOR COMPUTER MODELS AND ANALYSIS OF PERFORMANCE OF AN EVAPORATOR COIL.....	4479
VISUAL ASSESSMENT OF HOLOGRAMS.....	3037
VISUALIZATION OF NUCLEATE FLOW BOILING FOR A R22/R114 MIXTURE AND THEIR COMPONENTS.....	4551

W

WET CELL TO OBSERVE THE HYDRATION OF A CEMENT IN A SCANNING ELECTRON MICROSCOPE.....	4208
WHAT COMES AFTER IGES.....	4293
WHITTIER NARROWS EARTHQUAKE OF OCTOBER 1, 1987 A RECONNAISSANCE REPORT.....	4354
WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 17TH JOINT PANEL MEETING.....	3082
WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 18TH JOINT PANEL MEETING.....	4062
WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 19TH JOINT PANEL MEETING.....	4326
WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 20TH JOINT PANEL MEETING.....	4654
WIND EFFECTS ON STRUCTURES, SECOND EDITION.....	4188
WIND ENGINEERING-RECENT INVESTIGATION AND RESEARCH NEEDS.....	4273
WIND TUNNEL TESTS AND EQUIVALENT 1-MINUTE LOADS FOR THE DESIGN OF CLADDING GLASS.....	4189
WINDOWS U-VALUES: RESEARCH NEEDS AND PLANS.....	3036
WORKING FLUID SELECTION FOR SPACE-BASED TWO-PHASE HEAT TRANSPORT SYSTEMS.....	4398
WORKSHOP ON CEMENT STABILIZATION OF LOW-LEVEL RADIO-ACTIVE WASTE.....	4691

2

KEYWORD INDEX

<u>KEYWORD</u>	<u>REPORT REFERENCE NUMBER</u>
A	
ABRASION	4474, 4244, 4622
ABRASIVE	2989, 4049
ABSTRACTS	4256
AC-IMPEDANCE	4673
ACCELERATED AGING	4534, 4048
ACCELERATED AGING TEST	4567
ACCELERATED TEST METHOD	4513
ACCELERATED TESTING	4580
ACCELEROGRAPH	3082
ACCEPTANCE TESTING	4618
ACCOMPLISHMENTS	4592
ACCREDITATION	4488, 4721, 4313
ACI GUIDE	4098
ACOUSTIC INTENSITY MEASUREMENT	2704
ACOUSTICS	4588, 3038
ACOUSTICS MEASUREMENTS	2704
ADDITIVITY	974
ADHESION	4307
ADHESIVE BONDS	4666, 4223, 4053
ADHESIVE FAILURE	4560, 4559
ADHESIVE-BONDED SEAMS	4243
ADHESIVE-BONDING	4519, 4694
ADMIXTURE	4001, 4020
ADMIXTURES	4172
ADSORPTION	4629, 4584
ADVANCED COMPUTATION	4383
ADVANCED-TECHNOLOGY BUILDINGS	4151
AEC CAD	4234, 4128
AERATED	4286
AERODYNAMIC DRAG	4597
AERODYNAMIC TORQUE	4597
AGENCY SEISMIC COORDINATOR	4451
AGENDA	4497
AGGREGATE	4603, 4604, , 4241, 4224, 4605
AGGREGATE INTERLOCK	4194
AGGREGATES	4561, 3139
AGRICULTURE BUILDING	4195
AIR	2929

AIR CONDITIONER	4550, 3113, 4384, 2927, 4389, 4583, 4566, 4395, 4503
AIR CONDITIONER TESTING	4395
AIR CONDITIONERS	3118, 3134
AIR CONDITIONING	3121, 4180
AIR DIFFUSION PERFORMANCE	4535
AIR DISTRIBUTION	4155
AIR EXCHANGE	4767, 4613, 4486, 4418, 4563
AIR HANDLING	4155
AIR HANDLING UNIT	4540
AIR INFILTRATION	2897, 4564, 4270, 3023, 4644
AIR LEAKAGE	4156, 4240
AIR MOVEMENT	3123, 4657
AIR QUALITY	4232, 4563
AIR SAMPLING	4287
AIR VELOCITY	4250
AIRFLOW	4486, 4552, 4479, 4476 4657, 4614, 4106, 4250
AIRFLOW MODELING	4556
AIRFLOW SIMULATION	4644
AIRTIGHTNESS	3023
ALGORITHMS	4219
ALITE	4017, 4018
ALKALI	4241, 2987
ALKALI-AGGREGATE REACTION	4471, 4289
ALKALI-AGGREGATE REACTIONS	4224, 4580
ALKALI-SILICA	4241
ALKALI-SILICA REACTION	4603, 4604, 4605, 2987
ALUMINOFERRITE	2993
ALUMINUM ROOFING	4058
AMBIENT VIBRATION	4577
ANALYSIS	4116, 4562, 4707, 4710 4195, 4438
ANALYTICAL	4601, 4498
ANALYTICAL STUDY	4272
ANCHORS	4374, 4367
ANNULAR FLOW	4483, 4253
APERTURE	3119, 4211, 4125
APPARATUS	4260
APPARENT EMISSIVITY	4712
APPARENT THERMAL CONDUCTIVITY	3030, 4585, 4414, 3031
APPEARANCE	4545
APPLICATION	3041
APPLICATION PARAMETERS	4223
APPLICATION VALIDATION	4618

AQUEOUS	4222
ARCHITECTURAL ACOUSTICS	2706
ARCHITECTURE SYSTEMS	4200
ARCTIC	4311
ARCTIC OFFSHORE STRUCTURES	4569
ARMY FIELD STATIONS	4464
ARRANGEMENT	4132
ARCTIC ENVIRONMENT	4275
ARTIFICIAL INTELLIGENCE	3105, 4146, 4316, 2897, 4224
ARTIFICIAL ISLANDS	4500
ASBESTOS	4287
ASBESTOS-CONTAINING MATERIALS	4622, 4244, 4474
ASHLAND	4594, 4366
ASHRAE 95-1981	3117
ASPHALT	4324
ASPHALTS	4204
ASSESSMENT	3006
ASSESSMENT CORROSION	4089
ATMOSPHERIC DRAG	4727
ATOMIC ABSORPTION SPECTROSCOPY	4707
ATR	4680
ATRIUM	4181
ATRIUM SPACES	4458
ATTIC CONDENSATION	2900
ATTIC VENTILATION	2900
ATTICS	2902
ATTITUDE CONTROL	4597
AUTOCLAVED	4286
AUTOMATED MAINTENANCE	4317
AUTOMATED PROBE	4658
AUTOMATION	4477, 4383, 4236, 4661
AUTONOMOUS OSCILLATORS	4637
AXIAL LOAD	4642, 4729, 4453, 4167

B

BACKGROUND TEMPERATURE	3035
BALL MILL	4695
BANKNOTES	3037
BARRIER	4487
BASEMENT	4149
BEAMS	4367, 4652
BEHAVIOR	4453, 4167, 4576, 4656, 4357, 4276
BINARY MIXTURES	4147

BITUMINOUS ROOFING	4054, 4052
BLENDED CEMENTS	676
BLISTER	4623, 4627, 4625
BLISTERING	4047, 4544, 2808
BLOCK WALL	4390
BOILER	3120
BOILERS	3118, 4340
BOILING	4551
BOILING OF MIXTURES	4407
BOND	4333, 4307, 4676
BOND BEAMS	4642, 4729
BOND STRENGTH	4708, 4694, 4519
BRACED FRAMES	3081, 4499
BREADBOARD	4503
BREADBOARD AIR CONDITIONER	4397
BREAKING STRENGTH	3084
BRICK	4493
BRIDGE	4656, 4357, 4197, 4495
BRIDGE COLUMN	4571
BRIDGES	4574, 4736, 4453, 4167
BRIGHTNESS	974, 2811
BRITTLE FRACTURE	4449
BUBBLE	4551
BUILDING	4261, 4496, 4262, 4502, 4379, 4323, 4355, 4321, 4724, 4341, 4380, 4593, 4116, 4146, 4303, 4488, 4487, 4313, 4493, 4497, 4132, 4721, 4401, 4476
BUILDING ACOUSTICS	2706
BUILDING AIR EXCHANGE	4457
BUILDING ATRIA	4238, 4074
BUILDING CODE	4721
BUILDING CODES	3083, 4582, 4103, 4533, 4196
BUILDING COMPONENTS	4314
BUILDING CONSTRUCTION	4362, 4103
BUILDING CONTROL STRATEGIES	4296
BUILDING CONTROLS	4191
BUILDING CONTROLS RESEARCH	4191
BUILDING DATA	4538, 4294
BUILDING DESIGN	4151, 4237, 4103
BUILDING DIAGNOSTICS	4418, 4314, 4232, 4657, 4151
BUILDING DYNAMICS	3089, 3114, 4419
BUILDING ECONOMICS	4237, 4616

BUILDING ENERGY	4181
BUILDING ENERGY ANALYSIS	4431
BUILDING ENERGY MODELING	4644
BUILDING ENERGY PERFORMANCE	4616, 4269
BUILDING ENERGY SIMULATION	4419
BUILDING ENERGY SYSTEMS	4556
BUILDING ENVELOPE	4616
BUILDING ENVELOPES	4240, 3023
BUILDING HEAT LOAD	4156
BUILDING HEAT TRANSFER	4265
BUILDING INFILTRATION	4447
BUILDING INFORMATION	4294, 4416
BUILDING LIGHTING ENVIRONMENTS	3040
BUILDING MATERIALS	3012, 4587, 4846, 4427, 4392, 4068, 4314, 4061
BUILDING PERFORMANCE	4613, 4543, 4270, 2897, 4418, 4657, 4563
BUILDING PRODUCTS	4176
BUILDING REGULATIONS	4722
BUILDING RESEARCH	4102, 4653, 4724, 4256, 4383
BUILDING SIMULATION	3089, 4455, 3114, 4391, 4386
BUILDING SYSTEM MODELING	3114, 3089
BUILDING SYSTEM SIMULATION	4296
BUILDING TECHNOLOGY	4653, 4383, 4256
BUILDING THERMAL PERFORMANCE	4151
BUILDING VENTILATION	4447
BUILDINGS	4641, 4267, 2657, 4817, 4451, 3081, 4596, 4574, 4736, 4489, 4059, 4297, 3041, 4459
BUILT-UP	2808, 4052
BUILT-UP ROOFING	4054
BULLETIN BOARD	2936
BURNER	3107
BUTYL ADHESIVE	4559, 4560

C

C-VALVE	3036
C3A-GYPSUM	2994
C3S	4208, 2994
CAD	4538
CAD DATA EXCHANGE	4128, 4423
CAD DATA EXCHANGES	4234
CALCINED FLINT	4604, 4603

CALCIUM ALUMINATE	677
CALCIUM SILICATE HYDRATE	4629, 4019, 4222
CALCULATIONS	4390
CALIBRATED HOT BOX	2840, 4192, 4339, 3026, 3036, 4437, 4220
CALIBRATION CURVES	3035
CALORIMETER	4156
CALORIMETERS	4180
CAPACITY	4479
CAPACITY TESTING	4395
CAPILLARY TUBE	2927
CARBON DIOXIDE	4767, 4564
CARBONATE	4471, 4289
CARBON MONOXIDE	4564
CARNAHAN-STARLING-DESANTIS	4147
CASTILLO DE SAN MARCOS	4258
CATALYTIC HEATER	3107
CATENARY ACTION	4382
CATHODIC DELAMINATION	4534
CELLULAR	4286
CEMENT	4018, 4019, 4628, 4249, 4334, 3011, 4016, 4014, 4020, 4691, 4548, 4507, 4042, 4001, 2997, 4492, 4626, 4227, 4703, 4017, 4315, 4206, 2987, 4489, 4204, 4695, 4333, 677, 4208, 4307, 4629, 4241, 4605, 4604, 4222, 4603, 2986, 118
CEMENT COMPOUNDS	2994
CEMENT HYDRATION	3137
CEMENT MICROSTRUCTURE	3137
CEMENT MODELLING	3137
CEMENT PASTE	4701
CEMENTS	4172, 675, 676, 4671
CENTRAL AIR CONDITIONER	4566, 4384, 4389
CENTRAL AIR CONDITIONERS	2912
CENTRAL HEATING EQUIPMENT	2912
CENTRAL HEATING/COOLING PLANT	4340
CENTRAL PLANT	4166
CENTRAL TELEPHONE OFFICES	4731
CENTRIFUGAL CHILLERS	4340
CERTIFICATION	4722, 4721
CHAOS	4637
CHAOTIC	4576
CHAOTIC MOTIONS	4575, 4746

CHARACTERISTIC STRENGTH	4199
CHARACTERISTICS	4669, 4472
CHARACTERIZATION	4332, 4376, 4508, 4845
CHEMICAL MEASUREMENTS	2899
CHEMISTRY	4019, 4001, 4020, 4222
CHLORIDE	4625, 4471, 4289, 4627
CHLORIDE ION	4623
CHLOROFLUOROCARBONS	4536, 4292, 4616
CHOKED FLOW	4550
CHROMATICITY	4154, 4158, 4478
CHROMATICITY SHIFTS FROM CRT'S	3040
CHROMOTROPIC ACID	4429
CIELAB	4478
CIVIL ENGINEERING	4494
CLADDING GLASS	4189
CLASSIFICATION	4132, 4116
CLEAN SANDS	4641
CLEANING	4487
CLIMATIC CHAMBER	2840
CLIMATOLOGY	4533, 3071
CLINKER	4628
CLOSED CIRCUIT	4200
CO EMISSION	4541
COATED	4089
COATED SURFACE DEFECTS	4047
COATING	4060, 4534, 4627, 4047, 4513, 4086, 4515, 4623, 4625, 4674, 4090, 4508, 4087, 2988, 2989, 4084, 4680, 4085, 4083, 4229
COATING/METAL INTERFACE	4625, 4623, 4627
COATINGS	4845, 3006, 4670, 4332, 4545, 4544, 4509, 4673, 4091, 4567
CODE	4132, 4116
CODES	4326, 3082
COHESIVE FAILURE	4559, 4560
COIL	4583, 2927
COLD PLATE	4398
COLD ROLLED STEEL	2988
COLD WEATHER	4415
COLLAPSE	4449, 4323, 4321, 4366, 4341
COLOR	4157, 4158, 2811, 4154, 4179, 4565, 974
COLOR APPEARANCE	4179, 4154, 4158
COLOR CALIBRATOR	3040

COLOR CODING	3040
COLOR CONSTANCY	3022,4266
COLOR CONTRAST	4266
COLOR DEFECTS	4478
COLOR RENDERING	4266
COLOR VISION	4478,2811
COLOR-RENDERING INDEX	4179
COLOR/COLOR CODE	4478
COLORED OBJECTS	4396
COLUMN TEST	4197
COLUMNS	4495,4453,4357,4367, 4656,4167
COMBINED LOADING	4374
COMBUSTION	3107
COMMERCIAL	4155,4240
COMMERCIAL BUILDINGS	3023
COMMUNICATION	4146,2936
COMMUNICATION PROTOCOL	4484
COMPACTION	4517
COMPETITIVENESS	4722,4383,4647
COMPLIANT DRILLING	4373
COMPLIANT PLATFORMS	3079,3078
COMPONENT	4250
COMPONENT BASED BUILDING	4476
COMPONENTS	4061
COMPOSITE MATERIALS	4463
COMPOSITION VARIATION	4253
COMPRESSIVE STRENGTH	4733,4734
COMPRESSION	4244,4474,4622
COMPRESSIVE STRENGTH	4199,4450,3139,4258
COMPRESSOR	2927
COMPUTER SIMULATION TECHNIQUES	4419
COMPUTER	4327,4558,4626,4552, 4406,4695,4016,4098, 4116
COMPUTER AIDED DESIGN	4293,3105,4234,4456, 3020,4494,4128
COMPUTER AIDED DRAFTING	4293
COMPUTER AIDED ENGINEERING	3105
COMPUTER AIDED MANUFACTURING CAM	4456
COMPUTER ALGORITHM	4153
COMPUTER GRAPHICS	4167,3137
COMPUTER IMAGE ANALYSIS	4046,4544
COMPUTER IMAGE PROCESSING	4226,4317,4047
COMPUTER INTEGRATED	4364
COMPUTER INTEGRATED CONSTRUCTION	4128
COMPUTER MODEL	4479

COMPUTER MODELING	4431
COMPUTER MODELS	2657
COMPUTER PROGRAM	4643,3106
COMPUTER PROGRAMS	4353
COMPUTER SIMULATION	3112,4166,4557,3137, 4296
COMPUTER SIMULATION PROGRAM	3089,3114
COMPUTER SOFTWARE	4308
COMPUTER-AIDED DESIGN & DRAFTING	4423
COMPUTER-INTEGRATED CONSTRUCTION	4383
COMPUTER-PREDICTED BUILDING PERFORMANCE	3039,3021
COMPUTERS	4494,3020,4102,3011
COMPUTERS IN PLUMBING	3109
CONCEPTUAL MODEL	4416
CONCEPTUAL SCHEMA	4421,4294
CONCEPTUAL STRUCTURES	4416,4294
CONCRETE	4359,3070,4733,4259, 4360,4209,4734,4352, 2987,4351,4261,4347, 4375,4492,4358,4315, 2871,4699,4349,4348, 4324,4380,4206,4262, 4450,4379,4227,4316, 4362,4652,4471,4321, 4289,4378,4204,4374, 4172,4580,4605,4307, 4286,4629,4489,4333, 2985,4327,4194,2984, 4241,4604,4199,4453, 4603,4350,4415
CONCRETE (POST-TENSIONED)	4323,4341
CONCRETE (REINFORCED)	3069,2657
CONCRETE CONSTITUENTS	4224
CONCRETE CONSTRUCTION	4353,4330,2657,3139
CONCRETE CRACKING	4716,4692
CONCRETE DURABILITY	4224
CONCRETE MASONRY	4729,4642
CONCRETE PRECAST	4382
CONCRETE SLABS	4353
CONDENSATION	2902,4403
CONDENSER	2927
CONDITION ASSESSMENT	4226,4317,4314,4047
CONDUCTIVITY	4658
CONFERENCE	4632
CONFIGURATION	3119
CONFINEMENT	4453

CONFORMANCE	4558
CONNECTIONS	4499, 3081
CONNECTIVITY	4046
CONONICAL GRAPHS	4294
CONSENSUS	4582
CONSERVATION	4383
CONSOLIDATION	4207
CONSPICUITY	4478
CONSTRUCTED FACILITIES	4594
CONSTRUCTION	4199, 4364, 2871, 4327, 4696, 2999, 4581, 4647, 4313, 4262, 4380, 4415, 4493, 4204, 4323, 4261, 4379, 4341, 4489, 4316, 4488, 4321
CONSTRUCTION DOCUMENTATION	4128
CONSTRUCTION FAILURE	4321
CONSTRUCTION LOADS	4502, 4362, 2657
CONSTRUCTION MATERIALS	4714, 4173, 4314
CONSTRUCTION PROCESSES	4226
CONSTRUCTION SAFETY	3077, 4502
CONSTRUCTION SUPERVISION	3080, 3085, 4517
CONSUMER PRODUCTS	3118
CONTAMINANT	4584
CONTAMINANT DISPERSAL ANALYSIS	4386, 4391, 4455
CONTAMINANTS	4260, 4560, 4614
CONTAMINATION	4513, 4519, 4673
CONTINUOUS IMMERSION	4534
CONTRAST	4477, 4267, 4661, 4236, 4152, 4555
CONTROL	4484, 4406, 4558
CONTROL DYNAMICS	3089
CONTROL SYSTEM SIMULATION	4191
CONTROL SYSTEM TESTING	4191
CONTROLS	4263
CONVECTION	4125
CONVECTION-DIFFUSION	4386
CONVECTIVE FLOW	4636
CONVENTIONAL & SYMBOLIC LANGUAGE	4540
COOLING	4611, 4459
COOLING LOAD	4586, 4269
COOLING LOADS	4218
COOLING MODE	3134
COOLING SYSTEMS	4166
COOLING TOWERS	4340
COQUINA STONE	4258
CORE REMOVAL	4287

CORES	4734,4733
CORRECTIONAL FACILITIES	4176,4392
CORRELATION	4450
CORRELATION CURVE	4199
CORROSION	4546,4229,4090,4091, 4083,4085,4089,4058, 4513,4673,4544,4580, 4047,4289,4627,4623, 4674,4224,4625,4471
CORROSION POTENTIAL	4623
COSTS	4330
COUNTERFEIT	3037
COUPLED	4575,4746
CRACK	4548
CRACK PATH	4548
CRACKING	4047
CRACKING LOAD	4642,4729
CRACKS	4259,4194
CREATING	4497
CREEP	4816
CREEP-RUPTURE	4048
CREEPING CORROSION	4534
CRITERIA	4259,4653
CRITICAL PERFORMANCE LEVEL	4534
CURRENCY	3037
CYCLER	3120
CYCLIC	4641
CYCLIC INELASTIC LOADING	4167
CYCLIC LOAD	4571,4453
CYCLIC LOADING	4357,4495,4729,4642
CYCLIC OPERATIONS	4541
CYCLIC PERFORMANCE	2912
CYCLIC WET-DRY IMMERSION	4534
CYLINDER FLARE	4577
CYLINDRICAL HOLE	4712

D

DAMAGE	4198
DAMAGE ACCUMULATION	3083
DATA	4146
DATA ANALYSIS	2871
DATA BASE	4099,3020,4716, 692, 4146
DATA BASE MANAGEMENT	4317
DATA BASE MANAGEMENT SYSTEMS	3105

DATA BASES	4688,4687,4209.4315, 3011
DATA EXCHANGE	4538
DATA EXCHANGE STANDARDS	4423,4234,4128
DATA INPUT	4440
DATA MODELING	4294
DATA PROCESSING	4199
DATA TRANSLATORS	4423,4234,4128
DATA UNCERTAINTY	2990
DAYLIGHT	4565
DAYLIGHTING	3033,4074,4458,4152, 4555,4238,4267,4181
DDC	4406
DECISION TABLES	3020
DECONVOLUTION	4531,4328
DEDICATED WATER HEATING	4607
DEFLECTION	3064
DEFLECTION ENVELOPES	4367
DEFLECTIONS	4816,4574
DEFROST	4263
DEFROSTING	4148
DEGRADATION	4084,4229,4091,3012, 4086,4090,4674,4087, 4544,4317
DEGRADATION MECHANISMS	3012
DEGRADATION PRODUCTS	2996
DEHYDRATION	2984,2985
DELAMINATION	4324
DELIVERY	4487
DENSITY	4554
DEPTH MAPPING	4049,4712
DESIGN	4433,3069,4355,4370, 2999,4499,3083,4494, 4380,4151
DESIGN CHECKING	4663
DESIGN CRITERIA	3038,4817,4326,3082, 4433
DESIGN PROCESS	4588,4078,4494
DESUPERHEATING	4607
DETECTING HONEYCOMBING	4343
DETECTION	4562,4707,3037
DETECTION LIMIT	4562
DETENTION FACILITIES	4392
DETERIORATION	4845
DEVELOPMENT	4056,4055
DEVICE	4260
DEVICE SEQUENCING	4540

DIAGNOSTIC	4240
DIAGNOSTIC PROGRAM	4540
DIAGNOSTICS	4692, 4716, 4102
DIAGONAL BRACING	3081
DIFFERENTIAL TEMP. CONTROLLERS	3115
DIFFUSE REFLECTOR	4712
DIFFUSION	4636
DIFFUSION COEFFICIENTS	4587
DIFFUSIVITY	4701
DIGITAL DATA EXCHANGE	4293
DIGITAL DATA INTERCHANGE	4128
DIRECT SHEAR TEST METHOD	4708
DIRECTION	3068
DISASTER	4326, 3082
DISCHARGE COEFFICIENT	3119
DISCRETE ANALYSIS TECHNIQUES	4419, 4455
DISCRETE CRACK M	4194
DISCRETE THERMAL ELEMENTS	4419
DISCRIMINATION LIMIT	4562
DISTRIBUTED SYSTEMS	3105
DISTRICT HEAT DISTRIBUTION SYSTEMS	3028
DISTRICT HEATING AND COOLING	4230, 4643, 4308
DOCUMENTATION	4626
DOE	3120, 4482
DOMESTIC HOT WATER	3112
DOMESTIC HOT WATER HEATING	4557
DOORS	4639
DRILLED-IN ANCHOR	4374
DTAM1	4419
DUCT	4552
DUCTILITY	4367, 4453
DURABILITY	4546, 4173, 4699, 2990, 4545, 4846, 3012, 4289, 4580, 4471
DURABLE CONCRETE	4098
DUTY	3120
DUTY CYCLING	2912
DYNAMIC	4530
DYNAMIC BEHAVIOR	4655
DYNAMIC CHARACTERIZATION	4529, 4531
DYNAMIC GREEN'S	4532
DYNAMIC MODELING	4382
DYNAMIC PERFORMANCE	4220
DYNAMIC PERFORMANCE OF BUILDINGS	3114
DYNAMIC SIMULATION	4419
DYNAMIC SIMULATIONS	3089

DYNAMIC TEST METHODS	4339
DYNAMIC THERMAL	4437
DYNAMICS	4328, 4373

E

EARTH TEMPERATURE	4308
EARTHQUAKE	4354, 4198
EARTHQUAKE ENGINEERING	4731, 4370, 4327
EARTHQUAKE HAZARD	4451, 4596
EARTHQUAKE HAZARDS	3082
EARTHQUAKE LOADS	4571
EARTHQUAKES	4596, 4059, 3082
ECONOMICS	4330
EDGE EFFECT	3030, 3031
EFFECTIVENESS	4260
EFFECTS	4654
EFFICIENCY	4584, 3120, 3107
EFFICIENCY FACTOR	4482
ELASTIC STRUCTURAL NETWORKS	4640
ELECTRIC	4482
ELECTRICAL INFORMATION EXCHANGE	4456
ELECTRICAL POWER TRANSMISSION	4731
ELECTRICAL SUBSTATIONS	4731
ELECTRICAL SYSTEM	3038
ELECTROCHEMICAL	4513
ELECTRON-MICROSCOPE	4208
ELECTRONIC SECURITY SYSTEMS	4176
ELEMENT ASSEMBLY	4455
ELEMENT ASSEMBLY APPROACH	4386
EMBASSY	4262, 4261, 4379, 4380
EMCS	4558, 4484
EMISSION PATTERN	4712
EMPS	3025
ENCAPSULATED BEAD THERMISTOR	4542
ENCAPSULATION	4287
ENERGY	4651, 4586, 4438, 4611, 3107, 3120
ENERGY ABSORPTION	4635, 4729, 4642
ENERGY ANALYSIS	4265, 4237
ENERGY AUDITING	2897
ENERGY BALANCE	2840
ENERGY CALCULATION	4149, 4166
ENERGY CONSERVATION	4582, 2997, 4616
ENERGY EFFICIENCY	3118

ENERGY MANAGEMENT	4558
ENERGY MANAGEMENT AND CONTROL	4401
ENERGY PERFORMANCE	4074, 4152, 4238
ENERGY RATING	4263
ENERGY SIMULATION	4303
ENERGY STORAGE	118, 4113, 2984, 2985
ENERGY-EFFICIENT LIGHTS	4158, 4154
ENGINEERING	4273, 2899, 4116
ENHANCED FINS	4403
ENTRAINED-AIR	4699
ENVIRONMENTAL CONDITIONS	4464
ENVIRONMENTAL ASSESSMENT	4477, 4661, 4236, 4555
EPDM	4667, 4559, 4519, 4694, 4048, 4223, 4560
EPOXY	4084, 4334, 4515, 4087, 4086, 2988, 4492, 4332, 4229, 4090, 4206, 4508
EPOXY ADHESIVE	4367
EPOXY ANCHOR	4374
EQUATION	4655
EQUATION OF STATE	3122, 4147, 4387
EQUIPMENT	4392, 4427
EQUIPMENT PERFORMANCE	4340
EQUIVALENT LUMINANCE	974, 2811
ERGONOMICS	4077, 4078, 4076, 3038, 4179, 4588
ETHYLENE GLYCOL	2996
ETTRINGITE	2986, 2985, 2984
EVALUATION	4488, 4596, 4313, 4513, 4544
EVAPORATIVE FLOW	4127, 4407
EVAPORATOR	4583
EVAPORATOR VELOCITY PROFILE	4479
EXISTING BUILDINGS	4596
EXPANSION	4603, 4241, 4605, 4604
EXPANSION ANCHOR	4374
EXPANSION DEVICE	4550, 2927
EXPERIMENTAL DATA	3117
EXPERIMENTAL DESIGN	4232
EXPERIMENTAL FACILITY	4370
EXPERIMENTAL STUDY	4569, 4595, 4499
EXPERIMENTAL VALIDATION	4587
EXPERT SYSTEM	4285, 2936, 4692, 4716, 4270, 4042, 4224
EXPERT SYSTEM SHELL	4098
EXPERT SYSTEMS	4209, 4316, 4098, 4315, 3011, 2897, 3020

EXPRESSION	4605,4241
EXTERIOR ENVELOPE	4317
EXTERIOR WALLS	4611
EXTERNAL REFLECTION SPECTROSCOPY	2988
EXTERNAL TANK	4597
EXTERNAL TANKS	4727

F

F-CHART	3117
FACE ANGLE	4479
FACTORS AFFECTING CORROSION	4546
FAILURE	3068,4323,4341
FAILURE INVESTIGATION	4650,4449
FALL TRAJECTORY	3077
FALLING BODIES	3077
FAN	4552
FAN DELAY	2912
FAST FOURIER TRANSFORM	3070
FASTENERS LOW-SLOPED ROOFS	4546
FAULT DETECTION	4540
FEDERAL AGENCIES	4451,4596
FEEDBACK	2936
FENCING	4639
FENESTRATION	3033,4267
FIBER ANALYSIS	4287
FIBROUS-GLASS INSULATION	4463
FIELD APPLICATION	4243
FIELD EVALUATION	4622
FIELD INSPECTION	4694,4519
FIELD PERFORMANCE	4148
FIELD PERFORMANCE OF HEAT PUMP	4148
FIELD TEST EQUIPMENT	3085,3080
FIELD TESTING	4156
FIELD TESTS	4517
FILE TRANSFER	2936
FILM	4551
FILTER	4584,4260
FINITE ELEMENT ANALYSIS	4419
FINITE ELEMENT METHOD	4230,3034,4643
FINITE ELEMENT MODELING	4456
FINITE-ELEMENT ANALYSIS	4194
FIRE	4498
FIREPROOFING	4474,4244,4622
FLAME ATOMIC ABSORPTION	4710

FLAME ROLL-OUT	4405
FLANKING LOSS	2840
FLAW DETECTION	4378, 4375
FLEXIBLE STRUCTURES	4529
FLEXURAL MEMBER	4371
FLEXURAL STRENGTH	4561
FLOOR	4487
FLOW	2929, 4551
FLOW BOILING	4127, 4407
FLOW BOILING HEAT TRANSFER	4444
FLOW COEFFICIENT	4125
FLOW MEASUREMENT	4096
FLOWRATES	3112
FLUID PROPERTIES SYSTEM	4398
FLUIDELASTICITY	4637
FLUOROCARBONS	4292
FLUX DISTRIBUTION	4075
FLY ASH	4227
FOAM	2997
FOAM INSULATION	2808
FORCED OSCILLATORS	4637
FORM REMOVAL	4353
FORMALDEHYDE	4470, 4429, 4430, 4564
FORMALDEHYDE CONCENTRATIONS	4620
FORMWORK	2657
FORMWORK (CONSTRUCTION)	4330, 4353
FOUNDATION	4196
FOURIER TRANSFORM	4087
FOURIER TRANSFORM INFRARED	4084
FRACTAL ANALYSIS	2989
FRACTAL DIMENSION	2989, 4049
FRACTURE	4272, 4333, 4548
FRACTURE ANALYSIS	4449
FRACTURE MECHANICS	4194
FRAMING SYSTEMS	4330
FREE MOLECULAR FLOW	4597
FREE THAW	4224
FREEZE-THAW	4289, 4471
FREEZING AND THAWING	4699
FREEZING PROTECTION	4415
FREQUENCY SPECTRUM ANALYSIS	3070
FRIABILITY	4244, 4622, 4474
FRIABLE FIREPROOFING	4287
FRONT-END PROGRAM	4440
FTIR	4087, 4508, 2988, 4674, 4680, 4515, 4091, 4090, 4229, 4086

FUEL ENERGY COST	3034, 4230
FULL-SCALE	4656, 4571
FUMED-SILICA INSULATION	4414, 4468, 4585
FUNCTION	4530
FUNCTIONAL TESTS	3115
FUNCTIONS	4532
FURNACE	3120
FURNACES	3118
FURNITURE SYSTEMS	4588
FUSED QUARTZ	4604, 4603
FUSED SILICA	4603, 4604
FUTURE RESEARCH	3042

G

GALLOPING	4746, 4576, 4637, 4575
GAS	4482
GAS FIRED	4215
GAS FIRED WATER HEATER	4405
GAS FURNACES	4541
GAS WATER HEATER	4405
GASEOUS	4260, 4584
GEOLOGY	4196
GEOMETRICS	4456
GEOTECHNICAL ENGINEERING	4196, 3082
GEOTECHNICAL ENGINEERS	4500
GLASS	4272
GLASS CLADDING	4185
GLAUBERS'S SALT	118
GLAZING	4181, 4176, 4639
GLAZING MATERIAL	4133
GLAZING SURFACE	4133, 4439
GLOBAL MODELING	4294
GOMPERTZ GROWTH CURVE	4560, 4559
GRAFFITI REMOVERS	4066
GRANULAR	4584
GRAPHICS	4456
GREEN'S FUNCTIONS	4328
GROUND	4149
GROUND FAILURE	3082
GROUND MOTION	4196
GROUNDWATER	4580
GROUTED ANCHOR	4374
GUARDED HOT PLATE	3031, 3030
GUARDED-HOT-PLATE APPARATUS	4463, 4585, 4414
GUIDE SPECIFICATIONS	4581

GUIDELINES	4596
GUIDES	4316
GUSSET PLATES	4499, 3081
GUSSETED CONNECTIONS	4595
GUTH MODEL	2811
GYPSUM	4470, 2994, 2993

H

HARBOR	4465
HARD-SPHERE FLUID	4387
HARDWARE	4494
HEAT	4106, 4125
HEAT CAPACITY	2985
HEAT EXCHANGER	4583
HEAT FLOW	4214, 3119
HEAT FLOW METER	3031, 3030
HEAT FLUX TRANSDUCER	3036
HEAT LOSS	4308, 4643
HEAT PUMP	4444, 4073, 4483, 3113, 4550, 4607, 4389, 4566,
	2927
HEAT PUMP TEST METHODS	4148
HEAT PUMPS	4072, 4438, 4148, 3134, 3118, 2912, 4435
HEAT STORAGE	4611, 4181
HEAT TRANSFER	4659, 4483, 4561, 4149, 2943, 2840, 4551, 4643
HEAT TRANSFER ANALYSIS	3024, 4339
HEAT TRANSFER COEFFICIENT	4253
HEAT TRANSFER MODELS	3026
HEAT TRANSPORT	4398
HEATING	4459
HEATING AND COOLING	4400
HEATING SEASONAL PERFORMANCE	4148
HEATING/COOLING EQUIPMENT	4340
HELD STUDY	3121
HELICAL AUGERS	3085, 3080, 4517
HIGH ALUMINA CEMENT	677
HIGH INTENSITY DISCHARGE LIGHT	4158
HIGH SPEED	4551
HIGH-INTENSITY DISCHARGE LIGHT	4154
HIGH-PERFORMANCE CONCRETE	4699

HIGHLIGHTS	4565
HIGHWAY SAFETY	4478
HOLOGRAM	3037
HORIZONTAL DISTANCE	3077
HORIZONTAL FLOW BOILING	4483
HORIZONTAL REINFORCEMENT	4729,4642
HOT WATER SYSTEM	4482,4096
HOUSING	4707,4562
HURRICANES	3071,4533
HVAC SYSTEM	4540
HVAC SYSTEM SIMULATIONS	3089
HVAC SYSTEMS	3042,3041,4586,4237, 4296
HVACSIM+	3089,3114
HYDRATED CEMENT COMPOUND	2984,2985
HYDRATION	4172,3011,4626,2993, 2994
HYDRODYNAMIC FORCES	4578
HYSTERESIS CURVES	4367

I

ICE FORCES	4500
IDENTIFICATION	4532,3037
IGES	4538,4618,4234,4293
IGES TESTING	4618
IGES-IGES APPLICATION PROTOCOLS	4423
ILL-POSED PROBLEMS	4328
ILLUMINANCE	4555,4267
ILLUMINATION	4586,4152,4154,4158
IMAGE BASES	4315
IMAGE PROCESSING	4692,4716
IMAGE SEGMENTATION	4046
IMAGING	4845
IMPACT LIMITERS	4635
IMPACT	4352,4347,4351,4359, 4349,4358,4360,4348, 3070,4474,4244,4622, 4350
IMPACT RESPONSE	4346
IMPACT-ECHO	4343
IMPACT-ECHO METHOD	4324,3070
IMPREGNATION	4334,4206,4492
IMPULSE RESPONSE FUNCTIONS	4640

IN PLACE STRENGTH	2871,4199
IN PLACE TESTING	4450
IN SITU	4680,4627,4625
IN SITU EVALUATION	4314
IN SITU MEASUREMENTS	3080,3085,4636
INDENTATION	4622,4244,4474
INDOOR AIR QUALITY	2899,4614,4386,3041, 4767,4236,4477,4613, 4470,4418,4430,4610, 4661,4429,4102,4564, 4543,4455,4297,4657
INDOOR AIR QUALITY CONTROL	3042
INDOOR COIL	4479
INDOOR POLLUTANTS	4232
INDOOR POLLUTION	4431,4418,4657
INDUCTIVELY COUPLED PLASMA	4710
INELASTIC	4357
INELASTIC BEHAVIOR	4571
INFILL WALLS	4367
INFILTRATION	4486,4213,4543,4552
INFINITELY DIVISIBLE PULSES	4328
INFORMATION	4146
INFORMATION ENGINEERING	4423
INFORMATION INTERFACES	4285
INFORMATION MANAGEMENT	4099,4234
INFORMATION MODELING	4423
INFORMATION RETRIEVAL	4099
INFORMATION SYSTEM	4421,4146
INFORMATION SYSTEMS	3105,4294
INFRARED	2986
INFRARED IMAGING SYSTEMS	3035
INFRARED THERMOGRAPHY	4666,4053,4845,4544, 4712,4047
INITIAL GRAPHICS EXCHANGE SPEC	4293
INSTRUMENTATION	4736
INSTRUMENTATION SYSTEM	4308
INSULATING CONCRETE	4390,4286
INSULATING GLASS WINDOWS	3036
INSULATION	4542,4240
INTEGRAL COLLECTOR STORAGE	3117
INTEGRAL MASS BALANCES	4447
INTEGRATED APPLIANCE	4557,4607
INTEGRATED KNOWLEDGE SYSTEMS	4688,4687,4315
INTEGRATED REFLECTANCE	3022
INTELLIGENT BUILDINGS	4077
INTER-ROOM	2929
INTERACTION	4459

INTERFACE	4680,4333,4087
INTERFACES	3105
INTERIOR SURFACES	3021,3039,4075
INTERLABORATORY CALIBRATION	4628
INTERNATIONAL ASSOCIATION	4364
INTERROOM AIRFLOW	4431
INTERVIEW	4057
INTERZONAL	4250,4106,3119,4125
INTERZONAL AIRFLOW	4644
INTRUSION DETECTION SYSTEMS	4639
INVERSE CONTAMINANT DISPERSAL	4391
INVESTIGATION	4493,4261,4379,4380, 4262

J

JAILS	4639,4176
-------	-----------

K

K-E TURBULENCE MODELS	4535
KEYWORDS	4256
KINETICS	2993,4386
KNOWLEDGE	4209
KNOWLEDGE ACQUISITION	4716,4692
KNOWLEDGE BASE	4285,4316,4098
KNOWLEDGE BASED SYSTEMS	4270
KNOWLEDGE REPRESENTATION	4132,3105
KNOWLEDGE SYSTEMS	4688,4687,3020,4315, 3021
KNOWLEDGE-BASED SYSTEM	4440,4421,4540

L

LABORATORIES	4059
LABORATORY	4227,4696,4488,4204, 4313
LABORATORY ACCREDITATION	4714
LABORATORY EVALUATION	3035
LABORATORY VENTILATION	4657
LARGE SCALE	4197,4577
LARGE SPACE STRUCTURES	4530
LARGE-SCALE BRIDGE COLUMNS	4327

LATERAL BRACING	4502, 4499
LATERAL LOADS	3081
LATEX MODIFIED CONCRETE	4708
LEAD	4710, 4562, 4707
LEAD-BASED PAINT	4707
LIFE PREDICTION	4173
LIFE SUPPORT SYSTEMS	4200
LIFE-CYCLE COST	4230
LIFE-CYCLE COST ANALYSIS	3034, 4237
LIFELINES	4451, 4731
LIFT SLAB CONSTRUCTION	4323, 4341
LIFT-SLAB	4321
LIGHT	4179
LIGHT DISTRIBUTION	4153
LIGHT SOURCE	4158, 4154
LIGHTHILL CORRECTION	4578
LIGHTING	4269, 4157, 4459, 4266, 4267, 4611, 4477, 4236, 3038, 4661, 4586
LIGHTING GEOMETRY	4157
LIGHTING POWER DENSITY	4555
LIGHTING QUALITY	4565
LIGHTS	4465
LIGHTWEIGHT	4286
LIGHTWEIGHT AGGREGATES	3139
LIGHTWEIGHT CONCRETE	4312, 4275, 4601, 4311, 4569
LIMESTONE	4207
LIMIT STATES	3069, 3083, 3064
LIMITING RESOLUTION	3035, 3035
LINEAR	4187, 4529, 4655
LIQUID VISCOSITIES	4554
LIQUIDS	4542
LITERATURE REVIEW	4710, 4275, 4311, 4562
LOAD AND RESISTANCE FACTOR	3083
LOAD CALCULATION	3029, 4149
LOAD DEFORMATION	3084
LOAD EFFECTS	4362
LOADS	4736, 4816, 4355, 3068, 4817, 4189, 3083, 2657
LOADS (FORCES)	3069, 4353
LOCKING DEVICES	4176
LOGICAL PROGRAMMING	4440
LOW EARTH ORBIT	4597
LOW SLOPED ROOFING	4667, 4669
LOW-EMITTANCE GLAZING	4156
LOW-LEVEL NUCLEAR WASTES	4691

LOW-SLOPE ROOFS	3024
LOW-SLOPED	4225, 4052
LOW-SLOPED ROOFING	4537, 4472, 4694, 4519
LOW-SLOPED ROOFS	2999
LRFD	2657
LUMINANCE	4267, 974, 4555, 4565, 2811, 4661, 4236, 4477
LUMINOUS EFFICACY	4586

M

MAGNESIUM OXYCHLORIDE	2997
MAIL	4487
MAINTENANCE	4667, 2999, 4406, 4487
MANAGEMENT	2999
MANUAL	4626
MANUFACTURE	4172, 4286
MANUFACTURED HOMES	4430
MASONRY	4276, 4261, 4262, 4493, 4379
MASONRY CONSTRUCTION	4502
MASS	4106, 2929, 4125
MASS BALANCE EQUATIONS	4614
MASS FLOW	3119
MASS SPECTROMETRY	2996
MATCHED SYSTEM	4384
MATERIAL FOUNDATIONS	4500
MATERIALS	4696, 4173, 4313, 4488
MATHEMATICAL MODEL	4567
MATHEMATICAL MODELLING	4535, 4580, 4587
MATHEMATICAL MODELS	4687, 4688, 4315
MEASUREMENT	4097, 4214, 3029, 4545, 4390, 4543, 4486, 4155, 4232, 4707, 4562
MEASUREMENT METHODS	4653
MEASUREMENT TECHNIQUE	4444
MEASUREMENTS	4213, 4403
MEASURING	4437
MECHANICAL ANCHORING DEVICES	4287
MECHANICAL PROPERTIES	4258
MECHANICAL TESTS	4244, 4622, 4474
MECHANICAL VENTILATION	4767, 4543
MECHANISM	4229, 4651
MECHANISMS	2993
MEDIA	4260, 4584

MEDIUM-DENSITY FIBERBOARD	4430
MEMBRANE	4225
MEMBRANES	4054, 4243, 4667, 4537, 4632, 4056, 4472, 4669, 4055, 4694, 4519
MESSAGE TRANSFER	2936
METAL FASTENER	3024
METALLIC	4546
METAMERISM	4266
METHOD	4498, 4343, 4260
METHODOLOGIES	3012
MICROCOMPUTERS	4099, 4353
MICROCRACKS	4334
MICROELECTRODE	4625, 4627, 4623
MICROSAMPLING	4625
MICROSCOPY	4206, 4492, 4334, 4492, 4707
MICROSTRUCTURE	4205, 4018, 4701, 4017, 4014, 4016, 4548, 4046 4695, 4083, 4626, 4206, 4333
MILITARY FAMILY HOUSING	4400
MILL	4695
MINERAL ADMIXTURES	4172
MINIMUM RESOLVABLE TEMP DIFFERENCE	3035
MITIGATION	4596
MIXED SYSTEM	4384, 4566
MIXED-MATCHED SYSTEM	4566
MIXING RULE	4554
MIXTURE	4551
MIXTURE EFFECTS	4483
MIXTURES	4387, 4503
MOBILE SHELVING SYSTEM	4650
MODEL	4042, 4561, 2811, 4695, 4626, 4495, 4016
MODEL BASES	4687, 4688
MODELING	4430, 4172, 4583, 4149, 4552, 4470, 4166, 4614, 4296, 3023, 2927, 4416
MODELS	4297, 3011, 4620, 4571, 2899
MODULAR PROGRAMS	4556
MODULAR STRUCTURES	4330
MODULUS OF ELASTICITY	4733
MOISTURE	2902, 4270
MOISTURE ACCUMULATION IN WALLS	4659

MOISTURE ANALYSIS	2900
MOISTURE TRANSFER	4587, 4659
MONITORING	4406, 4240
MORPHOLOGY	4205
MORTAR	4276
MORTAR-BAR EXPANSION	4605
MORTARS	676
MOSCOW	4262, 4379, 4261
MULTI-ZONE	4486
MULTI-ZONE TRACER GAS	4614
MULTICYCLIC POLARIZATION	4513
MULTISTORY BUILDINGS	4353
MULTIVARIATE DISTRIBUTIONS	3068
MUNSELL VALUE	4157

N

NACL	4673
NATIONAL BUREAU OF STANDARDS	3112
NATIONAL STEEL	4595
NATURAL	4125
NATURAL CONVECTION	4211, 3119
NAVFAC	4234
NAVY CONSTRUCTION	4581
NETWORK MODELS	4476
NETWORKS	3011, 4315
NEW YORK	4465
NIGHT TEMPERATURE SETBACK	3027
NOISE	3038, 4661, 4236, 4477
NOISE CONTROL	2706
NOISE INSULATION	2706
NOISE ISOLATION	2706
NOISE MITIGATION	2706
NON-LINEAR	3123
NONAZEOTROPIC MIXTURES	4127, 4407
NONDESTRUCTIVE	4065, 4083
NONDESTRUCTIVE EVALUATION	4666, 4053, 4068, 4314
NONDESTRUCTIVE TESTING	4359, 4347, 4351, 4358, 4352, 4349, 4360, 4350, 4348, 4324, 4734, 3070
NONLINEAR LEAST SQUARES FITTING	4308, 3028
NONLINEAR OSCILLATIONS	4637
NORTH AMERICA	4593
NUCLEAR WASTE MATERIALS	4691
NUCLEATION	4551
NUMERICAL SIMULATION	4535
NYLON ROPE	3084

O

OBJECT COLOR	4157
OBJECT EVALUATION	3035
OBJECT REFLECTANCE	4179
OBJECT-ORIENTED DATABASE	4421
OFFICE AUTOMATION	4433, 3038
OFFICE BUILDING	4213, 4563, 3029, 4613, 4406, 4767, 4240,
OFFICE BUILDING VENTILATION	4418
OFFICE BUILDINGS	4610, 4564, 4543, 4232
OFFICE DESIGN	4077, 4078, 4079, 4076, 3038
OFFICE FURNITURE	4588
OFFSHORE CONCRETE	4312
OFFSHORE PLATFORMS	3078
OFFSHORE STRUCTURE	4275
OFFSHORE STRUCTURES	3079, 4311
OIL STORAGE	4366
OIL-WELL CEMENTS	675
ONE-SIXTH(1/6)-SCALE MODEL BRIDGE COLUMNS	4167
OPAQUE	4680
OPERATION	4487
OPERATIONAL STRATEGIES	4340
OPPONENT COLORS	974, 2811
OPTICALLY VARIABLE DEVICES	3037
OPTICS	3033, 4565
OPTIMIZED BUILDING CONTROLS	4191
ORBITAL MECHANICS	4727
ORGANIC VOLATILE COMPOUNDS	4610
ORGANIZATION	4132, 4116
ORTHOGONAL PROJECTION	4597
OSCILLATORS	4746, 4576, 4575
OSI	4484
OUTDOOR EXPOSURE	4058
OUTDOOR EXPOSURE TEST	4567
OVERLAY	4708
OVERLAYING	4677, 4668
OVERLOAD TESTING	4395
OXIDATION	2996
OZONE LAYER DEGRADATION	4292

P

PAINT	4207, 4060, 4545, 4707, 4562, 4710
PAINTED	4089
PANEL	4592
PARAPETS	4493
PARAROSANILINE	4429
PARTIALLY TRANSPARENT ENCLOSURE	3106
PARTICLE SIZE DISTRIBUTION	4695
PASSIVE SOLAR ENERGY	2984
PASSIVE SOLAR STRUCTURE	3106
PATCHING	4677, 4668
PDES	4538, 4293
PEAK EXOTHERM	4561
PEAK SPACE CONDITION LOADS	3027
PEEL TEST	4223
PEEL TESTS	4243
PENETRATION TEST	4450
PENETRATION TESTS	3080, 3085, 4517
PENETRATION	4584
PERFORMANCE	4537, 4210, 4632, 4215, 4073, 4057, 4667, 2997, 4259, 4691
PERFORMANCE CRITERIA	4207, 4669, 4708, 4691, 4054, 4472, 4653
PERFORMANCE CRITERION	4052
PERFORMANCE ESTIMATION TECHNOLOGY	3117
PERFORMANCE OF WALL SPECIMENS	4437
PERFORMANCE PARAMETERS	4540
PERFORMANCE SPECIFICATIONS	4671
PERFORMANCE TEST	4066
PERFORMANCE TEST PROCEDURE	4557
PERMEABILITY	4701, 4636, 4289, 4471, 4580
PERMEATION TUBES	4429
PERSONAL COMPUTER	2871
PHASE ANALYSIS	4628
PHASE CHANGE	2943, 4113
PHASE CHANGE MATERIALS	118
PHASE EQUILIBRIA	2994
PHOTOMETRIC MEASUREMENT	4555
PHOTOMETRY	974

PHYSICAL MEASUREMENTS	2899
PHYSICAL PROPERTIES	4258
PIEZOELECTRIC	4376
PIPE INSULATION THICKNESS	4230
PIPE SUPPORT SYSTEM	4643
PLANNING OFFICE AUTOMATION	4079
PLASTIC HINGE	4167
PLATES	4346
PLEATED ROPE	3084
PLUMBING CODES	3108, 3109
PLUMBING SYSTEM DESIGN	3108, 3109
PNEUMATIC	4406
POLLUTANT	4613
POLLUTANT LEVELS	4614
POLLUTION	4232
POLYBUTADIENE	4086, 4091, 4084
POLYMER CONCRETE	4561
POLYMER-MODIFIED BITUMENS	4669, 4472
POLYMERS	4259
POLYGONS	4219
POLYSTYRENE METERING CHAMBER	2840
POLYURETHANE	4084, 4091, 4561
PORE	4018
PORE SOLUTION	4241, 4605
PORE STRUCTURE	4046
PORE WAKE PRESSURE	4641
POROUS MEDIA	4636
PORTABLE	4200
PORTLAND CEMENT CLINKER RESEARCH	4589
PORTLAND CEMENT CONCRETE	4677, 4708
PORTLAND CEMENTS	676
PORTLAND-CEMENT CONCRETE	4668
POST INSTALLED ANCHOR	4374
POST-OCCUPANCY EVALUATION	4236, 4555, 4661, 4477
POST-TENSIONED CONCRETE	4321
POTENTIAL	4625
PREDICTING	4620
PREDICTION	4061
PRELIMINARY	4195
PRESCRIPTIVE CRITERIA	4669, 4472
PRESSED-WOOD	4620
PRESSED-WOOD PRODUCTS	4429
PRESTRESSING	4569
PRISM	4276
PRISONS	4639
PROBABILITY	3083
PROBABILITY THEORY	4567

PROBE PENETRATION	4734
PROCEDURE	3120
PROCEDURES	4212
PROCEEDINGS	4595
PRODUCING	4433
PRODUCT APPROVAL	4721, 4722
PRODUCT DATA EXCHANGE SPEC	4293
PRODUCT MODEL	4538
PRODUCTION PLATFORMS	4373
PRODUCTIVITY	4076, 4102
PRODUCTS	4017
PROFILE	4106, 2929
PROGRESSIVE COLLAPSE	4382, 4262, 4321, 4341, 4379, 4323
PROJECT	4496
PROJECT SUMMARIES	4653
PROPAGATION APPROACH	4529
PROPERTIES	2997, 4669, 4472, 4286
PROPERTY VARIATION	4253
PROPULSION REQUIREMENTS	4727
PROTOCOL	4558, 4146
PROTOCOLS	4401
PROTOTYPE	4495, 4569
PROVISIONS	4132
PUBLICATIONS	4256
PULLOUT TESTS	4194, 3139
PULSE LOADS	3084
PULSE PROBING	4531, 4530
PUNCHING SHEAR	4601, 4569, 4275, 4311
PUNCHING SHEAR RESISTANCE	4312

Q

QUALITY	4714, 4494
QUALITY ASSURANCE	4671, 4489, 4227, 4223, 4243, 4667, 4537, 4226, 4327
QUALITY CONTROL	4204
QUANTITATIVE	4085, 4508, 4515, 4332, 4089
QUASIPERIODICITY	4637

R

R12/R15A MIXTURE	4444
R22/R114 MIXTURE	4444
RADIATION	4219
RADIUM ACTIVITY CONCENTRATION	4636
RADON	4636, 4564
RAPID REPAIR	4561
RATE	4106, 2929, 4125
RATING METHODOLOGY	4607
RATING PROCEDURE	3134, 4389, 4384, 4566
REACTION MECHANISMS	4205
RECONNAISSANCE	4354
REDUNDANCY	4200
REFERENCE SPECIFICATIONS	4581
REFLECTED LIGHT MICROSCOPY	4589
REFLECTION ABSORPTION FTIR	2988, 4084, 4515
REFLECTION/ABSORPTION	4674, 4508, 4229
REFLECTION/ABSORPTION IR	4332
REFRACTORY CEMENT	677
REFRIGERANT	4503, 4536
REFRIGERANT FLOW	4407
REFRIGERANT HEAT TRANSFER	4407
REFRIGERANT MIXTURE	4253
REFRIGERANT MIXTURES	4147, 4072, 3122, 4397, 4554
REFRIGERANT PROPERTIES	3113
REFRIGERANT PROPERTY	4216
REFRIGERANTS	4292, 3122, 4210, 4435, 4387, 4444, 4398
REFRIGERANTS HEAT TRANSFER	4127
REFRIGERATION	3113, 4554
REFRIGERATION SYSTEMS	4292, 4483
REFRIGERATOR-FREEZERS	3118
REGRESSION ANALYSIS	3139
REGULATION	4191, 4721
REHYDRATION	2984, 2985
REINFORCED CONCRETE	4067, 4371, 4275, 4311, 4571, 4569
REINFORCEMENT BUCKLING	4371
RELIABILITY	4373, 3064, 3079, 3069, 4200, 3083
RELIABILITY THEORY	4846, 3012

REMOVAL	4584
REPAIR	2999,4708
REPAIR MATERIALS	4677,4668,4259
RESEARCH	4057,4273,4582,4736, 4059,4546,4172
RESEARCH APPLICATION	4724
RESEARCH BENEFITS	4724
RESEARCH NEEDS	4537
RESEARCH PLAN	2899
RESIDENCES	4620,4218
RESIDENTIAL BOILER	4557
RESIDENTIAL BUILDINGS	2897,4270
RESIDENTIAL HEATING	2912
RESIDUAL SOILS	3080
RESPONSE SPECTRA	4196
RESPONSIBILITIES	4494
RESTORATION	4207
RESTRICTOR	4550
RETINEX	3022
RETROREFLECTIVITY	4478
REVIEW	675, 677,4546
RIGID BODY	4640
RISK	3079
ROBOT VISION	4266,3022
ROBOTIC	4487
ROBOTICS	4383
ROLLER MILL	4695
ROOF GLAZING	4458
ROOF PERFORMANCE	4546
ROOFING	4528,4526,4621,4527, 4520,4524,4525,4523, 4547,4225,4056,4055, 4048,4223,4053,4058, 4632,4666,4243,2999
ROOFING MEMBRANES	2808,4065,4688,4687
ROOFING TECHNOLOGY	4688,4687
ROOFS	4632,4052,4537,4560, 4057,4472,4669,4519, 4694
ROOM AIR CONDITIONERS	4180
ROOM AIR MOVEMENT	4535
ROUGH	4085
ROUGHNESS	4673
RULE BASES	4688,4687

S

SAFETY	2871, 4200
SAFETY COLORS	4158, 4154
SAFETY DESIGN	4498
SAFETY LIMIT SWITCHES	4541
SAFETY NETS	3077
SAFETY WATER HEATER	4405
SAMPLING PROCEDURES	4317
SAND GRAINS	4676
SANDSTONE	4207
SCALE MODEL	4569
SCANNING ELECTRON	4492
SCANNING ELECTRON MICROSCOPE	4206
SCANNING ELECTRON MICROSCOPY	4589, 4334
SCRIBE MARK	4534
SEALANTS	4259
SEAMS	4057, 4666, 4053, 4559, 4223, 4560, 4694
SEASONAL PERFORMANCE	4607, 2912
SECUREMENT	4546
SECURITY	4487
SEISMIC	4654
SEISMIC DESIGN STANDARDS	4731
SEISMIC EFFECTS	4062, 4592
SEISMIC LOADS	4571
SEISMIC SAFETY	4451
SEISMOLOGY	4196
SELF-HEATED	4096
SELF-LUMINOUS DISPLAYS/CRT'S	3040
SEM	2986, 4333
SEM ANALYSIS	4694
SEM MICROGRAPH	4046
SEMANTIC MODELING	4421, 4416
SENSITIVITY STUDY	4216, 3113
SENSITIVITY, VISUAL	974
SENSORS	3115, 4574, 4736
SEQUENTIAL CONSTRUCTION ANALYZER	4226
SERVICE	4487
SERVICE LIFE	4067, 4567, 4173, 4545, 4580, 4687, 4688
SERVICE LIFE PREDICTION	4846, 4667, 3012, 4537
SHADING	4152
SHALLOW TRENCH	4643, 3034, 4230
SHAPE FACTOR	4153

SHEAR FAILURE	4729, 4642
SHEAR REINFORCEMENT	4652
SHELL OF REVOLUTION	4597
SHENYANG TOWER	4577
SHORT TUBE RESTRICTOR	4550
SI3N4	4205
SILICA	4605
SILICA FUME	4699
SILICA NITRIDE	4205
SILICATE FUME	4629
SIMILITUDE STUDIES	4495
SIMULATED FALLS	3077
SIMULATION	3011, 4016, 4042, 4209, 4695, 4166, 4583, 4626, 4340
SIMULATION PROGRAMS	4191
SIMULTANEOUS EQUATIONS	4556
SINGLE-PLY	4056, 4048, 4055, 4057, 4243, 4223
SINGLE-PLY MEMBRANES	4053, 4666
SINGLE-PLY ROOFING MEMBRANES	4559
SINGLE-PLY SPECIFICATION	4225
SLANT SHEAR BOND STRENGTH	4677, 4668
SOFTWARE	2871
SOIL	4308
SOIL EXPLORATION	4636
SOIL INVESTIGATION	4517, 3085, 3080
SOIL MECHANICS	3080, 4517
SOLAR	4096, 3029
SOLAR COLLECTOR	2990
SOLAR COLLECTORS	2996
SOLAR DOMESTIC HOT WATER	3117
SOLAR ENERGY	2996, 118, 3115
SOLAR ENERGY STORAGE	2943
SOLAR FENESTRATION GAIN	4265
SOLAR FLUX MEASUREMENT	3106
SOLAR GAIN	4152
SOLAR HEAT GAIN	3033
SOLAR RADIANT	4075
SOLAR RADIATION	4133, 4439, 3106
SOLAR SHADING	4181
SOLAR THERMAL PERFORMANCE	3112
SOLUTION	4019
SORPTION	4470
SORPTION ISOTHERMS	4587
SOUND POWER MEASUREMENTS	2704

SOURCE	4179
SOURCES OF VARIABILITY	4567
SPACE COOLING LOADS	4265
SPACE HEATER	3107
SPACE HEATING	4218, 4557
SPACE SHUTTLE	4727
SPECIAL CEMENTS	675
SPECIFICATION	4415
SPECIFICATIONS	4400, 4581
SPECIFIED STRENGTH	3084
SPECTRAL POWER DISTRIBUTION	4179
SPECULAR GLARE FROM CRT'S	3040
SPOT TEST	4710
SPT	4651
STABILITY	4502
STANDARD	4663, 4285, 4721, 4116
STANDARD PROCESSING	4663
STANDARD REFERENCE MATERIAL	4468, 4585, 4414
STANDARDS	4427, 4392, 3121, 4817, 4055, 4489, 4382, 3041, 4225, 4722, 4582, 3069, 4326, 4671, 4696, 4714, 4056, 4653, 4488, 4313, 3021, 4132, 4330, 4558, 4176, 3020
STANDARDS ANALYSIS	4285
STANDBY LOSSES/FIRST HOUR RATING	4482
STATIC LOAD TESTS	4635
STATISTICAL ANALYSIS	3071, 4199, 2871, 3139
STATISTICS	4533
STEADY-STATE THEORY	3039, 3021
STEEL	4083, 3006, 4086, 4449, 4089, 4090, 4332, 4515, 4087, 4085, 4680, 4674, 4623, 3081, 4229, 4091, 4627, 4380
STEEL BUILDINGS	4499
STEEL DECK/CONCRETE FLOOR SLABS	4287
STEEL PIPE	4308
STEP	4538
STIFFNESS	4574, 3084
STRAIN ENERGY	4054, 4052
STRENGTH	4676, 4014, 4652.3139, 4493
STRESS WAVE PROPAGATION	4324

STRUCTURAL	4355
STRUCTURAL COLLAPSE	4650
STRUCTURAL DESIGN	3081, 4330
STRUCTURAL ENGINEER	4364, 4817
STRUCTURAL ENGINEERING	4103, 4533, 4326, 3071, 4328, 4574, 4059, 3078, 3069, 4736
STRUCTURAL EVALUATION	4382
STRUCTURAL FAILURES	4103
STRUCTURAL NETWORKS	4532
STRUCTURAL RELIABILITY	3068
STRUCTURAL RESPONSE	4736
STRUCTURAL SYSTEMS	4655
STRUCTURAL TESTING	4816
STRUCTURE	4380, 4261
STRUCTURES	4187, 4188, 4273, 4531, 4489
SUBSURFACE	4083
SULFATE ATTACK	4580
SULFONATED MELAMINE FORMALDEHYDE	4629
SULFONATED NAPHTHALENE	4629
SUMMARIES	4496
SUMMARY	4632
SUN-SPACE MODEL	3106
SUNSPACE	4075
SUPERHEAT	4479
SUPERINSULATED WALL	3026
SUPERPLASTICIZER	4629
SUPERVISORY CONTROL	4191
SURFACE CONDITION	4694
SURFACE CONTAMINATION	4559
SURFACE PROFILE	4049, 2989, 4712
SURFACE REFLECTIONS	4157
SURFACE ROUGHNESS	2989, 4049
SURFACE TEMPERATURE	4133
SURVEY	4667
SYNTHESIS	2986, 3084
SYSTEMS	4427, 4392, 4401, 4552

T

TANK COLLAPSE	4594
TANKS	4449
TECHNICAL BASES	4653
TECHNIQUES	4457
TECHNOLOGY	4647, 4593, 4496

TECHNOLOGY TRANSFER	4632
TELECOMMUNICATIONS	4731
TEMPERATURE	4048, 4106, 2929
TEMPERATURE DISTRIBUTIONS	3123
TEMPERATURE MEASUREMENT TECHNOLOGY	4439, 4133
TEMPERATURE SENSORS	4133
TENSILE FATIGUE STRENGTH	4054
TENSILE STRENGTH	4307, 4054, 4052
TENSION	4676
TENSION LEG PLATFORMS	3078
TEST	4584
TEST METHOD	4676, 4668, 4307
TEST METHODS	4677, 4180, 4176, 4259
TEST PLAN	3115
TEST PROCEDURE	4482
TEST PROCEDURES	3115, 3085, 4517
TEST ROOMS	4180
TESTING	2990, 4722, 4696, 4197, 4691, 4618, 4714, 4733, 4240, 4558
TESTING AND RATING PROCEDURES	3118
TESTS	4057, 4059
TETRACALCIUM	2993
TGA	2986
THEORY	4701
THERMAL	4658
THERMAL ANALYSIS	4237, 4614
THERMAL ANALYSIS RESEARCH PROGRAM	3025
THERMAL BRIDGE	3024
THERMAL CONDUCTIVITY	4542
THERMAL CONDUCTIVITY MEASUREMENT	4468
THERMAL DIFFUSIVITY	4542
THERMAL ELEMENTS	4303
THERMAL EMISSIONS	4712
THERMAL INSULATION	3030, 3031, 4616, 2997
THERMAL MASS	3021, 3039, 3027, 4611
THERMAL MASS EFFECT	4265
THERMAL MODELING	3033, 4556
THERMAL PERFORMANCE	4212, 2990, 4458, 118, 4269
THERMAL RADIATION	4153
THERMAL RADIATION PROPERTIES	4133
THERMAL RESISTANCE	4390, 3026, 4463, 3030, 3031
THERMAL RESPONSE	3029
THERMAL WAVE IMAGING	4089
THERMAL WAVE MICROSCOPY	4089

THERMALWAVE IMAGING	4083,4085
THERMALWAVE MICROSCOPY	4083,4085
THERMISTOR FLOWMETER	4096,4097
THERMISTORS	3115
THERMODYNAMIC PROPERTIES	4536,4387,3113
THERMODYNAMICALLY	4554
THERMODYNAMICS	4435,4222
THERMOGRAPHIC IMAGE	2989,4049
THERMOPHYSICAL PROPERTIES	4536
THERMOSYPHON	4096
THICK CIRCULAR PLATES	4345
THIN FILMS	4332
TIERING	4581
TIMBER SHORING	4502
TIME TO FAILURE	4567,4048
TRACER GAS	4457,4767,4470,4155, 4486,4543
TRACER GAS AND VENTILATION	4657
TRACER GAS TECHNIQUES	4447,4391
TRACER GAS TESTING	4563
TRANSDUCERS	4376,4574
TRANSFER	4651
TRANSFER-FUNCTION COEFFICIENTS	4339
TRANSIENT	4346
TRANSIENT IMPACT RESPONSE	4345
TRANSIENT SIMULATION	4556
TRANSIENT STRESS WAVES	4378,4375
TRANSPORT PROPERTIES	4701,3113
TRANSPORT PROPERTY MEASUREMENTS	4659
TRANSPORTATION NOISE	2706
TRENDS	4593,4406
TRICALCIUM	4629
TRICALCIUM ALUMINATE	2993,2994
TRICALCIUM SILICATE	2994,3137,4046
TURBULENCE	3078
TWO PHASE FLOW	4127,4407

U

U-VALUE	3036,4156
UJNR	4654
ULTRA-LOW VISCOSITY EPOXY	4492,4334
ULTRASONIC PULSE ECHO	4243,4666,4053
UNCERTAINTIES	2704

UNDERGROUND HEAT DISTRIBUTION SYSTEM	3028, 3034, 4643
UNDERGROUND HEAT DISTRIBUTION	4230
UNIAXIAL TENSILE BOND STRENGTH	4677, 4668
UNITARY HEAT PUMP	4400
UNITED STATES CAPITOL	4207

V

VALIDATION	4620
VALIDATION OF COMPUTER PROGRAM	3025
VALIDATION OF DATA TRANSLATORS	4423
VAPOR COMPRESSION CYCLE	4210, 4216, 3113
VAPOR-LIQUID EQUILIBRIUM	4387
VARIABILITY	4450
VARIABLE	4263
VARIABLE SPEED SYSTEM	4389
VEILING REFLECTIONS	4396, 4157
VELOCITY	2929, 4106
VENTILATION	4431, 4564, 4610, 4155, 4613, 3023, 4563, 4767, 4270, 4486, 4552, 4543
VENTILATION EFFECTIVENESS	4155
VENTILATION STANDARDS	3042
VENTILATION SYSTEMS	4535
VERIFICATION TESTING	4618
VERTICAL CYLINDERS	4578
VERTICAL PLATES	4403
VIBRATIONS	4574
VIEW FACTOR	4153
VIEW FACTORS	4219
VISIBILITY	4267
VISION	4396
VOIDS	4666, 4053
VOLATILE ORGANIC	4060
VOLTAGE FLUCTUATION TESTS	3115
VON KRIES ADAPTATION	3022

W

WALL HEAT TRANSFER	4192, 3026
WALL MASS	4218
WALL SPECIMENS	4220
WALL THERMAL RESISTANCE	4192, 4659
WALLBOARD	4470
WALLS	4493
WATER CONSERVATION	3108
WATER HEATER	4482
WATER HEATER TEST	4405
WATER HEATERS	4215
WATER-TO-CEMENT RATIO	4699
WAVE FORCES	3079
WAVE PROPAGATION	4352, 4359, 4347, 4348, 4351, 4350, 4360, 4358, 4349, 3070
WAVES	3068, 3078
WEAKLY-CEMENTED	4676
WEAR	3037
WEATHERING	4058, 4207
WEIBULL DISTRIBUTION	4048, 4534
WEIGHING FACTORS	4269
WELDED STEEL TANKS	4449
WET-CELL	4208
WHITTIER NARROWS	4354
WHOLE BUILDING PERFORMANCE	3039, 3021, 3025, 4151, 4265
WHOLE HOUSE PERFORMANCE	3027
WIND	4062, 4592, 4272, 4273, 4654
WIND EFFECTS	4188
WIND ENGINEERING	3071, 4637
WIND FORCES	3079, 3068
WIND LOADS	4185, 4326, 4502, 3078
WIND TUNNEL	4189
WIND-INDUCED	4577
WINDOW HEAT TRANSFER	4156
WINDOW SYSTEMS	4212
WINDOW TESTING	3036
WINDOWS	4214, 4639
WINDS	4326
WIRING	4588
WORKING FLUIDS	4398
WORKSTATION DESIGN	4588

X

X-RAY DIFFRACTION	2986,4628
X-RAY FLUORESCENCE	4710
X-RAY POWDER DIFFRACTION	4589

AUTHOR INDEX

<u>AUTHOR</u>	<u>REPORT REFERENCE NUMBER</u>	<u>AUTHOR</u>	<u>REPORT REFERENCE NUMBER</u>
A		C	
AARON, D.A.	4550	CAMPBELL, D.	4589
ARNOLD, C.E.	3026, 4192, 2840, 4437	CARRASO, A.S.	4531, 4655, 4532, 4529
AXLEY, J.W.	4455, 4303, 4297, 4386, 4419, 4391, 4447, 4644, 4486	CARINO, N.J.	4530, 4187, 4328 4415, 4375, 4346, 4360, 3077, 4450, 4345, 4352, 3070, 4348, 4350, 3139, 4358, 4347, 4343, 4349, 4351, 4359, 4324, 4262, 4261, 4380, 4194, 4379, 4733, 4734, 2871
B		CAVANAUGH, K.	3039, 3021, 3025, 3024, 3027
BARNETT, J.P.	4116	CELEBI, M.	4196
BARTEL, T.W.	2704	CHANG, Y.M.	3035, 4240
BATTS, M.E.	4712	CHEN, G.	4376
BEA, R.G.	4500	CHEOK, G.S.	4453, 4357, 4499, 4571, 4727, 4656, 4167, 4495, 4197
BEAN, J.W.	4459, 4181	CHUNG, K.Y.	3085
BENTZ, D.P.	4049, 4525, 2989, 4317, 4515, 4052, 4712, 4047, 4046, 4048, 4692, 4716, 4508, 4332	CHUNG, R.	4641
BRANDT, E.	4061, 4846	CHWALOWSKI, M.	4479
BRILL, M.H.	3022	CLARK, D.R.	4340, 4166, 3114, 3089
BROCKMAN, M.	4603, 4604	CLIFTON, J.R.	4099, 4098, 4067, 4316, 4258, 4314, 4207, 4042, 4224, 4580, 4066, 4065, 2936, 4068, 4692, 4699, 4716, 4581, 4014, 4507, 3011, 4691
BROWN, P.W.	4671, 2994, 2993, 2996, 4522, 2985, 4518, 4249, 2984, 118, 4208, 3011	COLLINS, B.L.	4158, 4478, 4154, 4236, 4464, 4555, 4661, 4477, 3037, 4179, 4545
BURCH, D.M.	3024, 2900, 2902, 4437, 4659, 4265, 4220, 4218, 4587, 3025, 3039, 3021, 3027, 3026, 2840, 4192, 4390, 4339	COOK, G.	4575, 3078, 4578, 4746, 4640, 4576, 4637
BURGE, H.	4232	CULLEN, W.C.	2999
BURNS, T.	4576	CULVER, C.G.	4341, 4321, 4323, 4059
BUSCHING, H.W.	4523, 4054		
BUSHBY, S.T.	4406, 4296, 4558, 4401, 4484		
BYRD, W.E.	4229, 4086, 4674, 4084, 4091, 4087, 2988, 4710, 4090, 4206, 4509, 4515, 4508, 4707, 4562, 4332, 4512		

D

DAHIR, M.S. 4661
 DAISEY, J.M. 4610
 DALGLEISH, B. 4205
 DANNER, W.F. 4294, 4421, 3105, 4416, 4146
 DI MARZO, M. 4407
 DIAMOND, S. 2987, 4605
 DIDION, D.A. 4216, 4407, 4072, 3113, 4073, 3121, 4548, 4292, 4400, 4479, 4253, 4148, 4551, 4554, 4536, 4397, 4503
 DIKKERS, R.D. 4639, 4427, 3118, 4392, 4176
 DOBRY, R. 4641
 DOLS, W.S. 4418, 4613, 4543, 4657, 4767
 DOMANSKI, P.A. 4384, 4389, 4438, 4479, 4566, 2927, 3134, 4216, 3113, 4583, 4550
 DOUGHERTY, B.P. 4542, 4097, 4658, 4607, 4096
 DUTKO, P. 4641

E

EBBERTS, D.F. 4390, 4414
 ELAM, S. 4663
 ELLINGWOOD, B.R. 4355, 3083, 3064, 3069
 EMBREE, E.J. 4048, 4559, 4560, 4534
 EVANS, J. 4487

F

FAISON, T.K. 3026, 4541, 4192, 2840, 4437, 4468
 FANG, J.B. 3034, 4643, 3028, 4535, 4240, 4308, 4230
 FANNEY, A.H. 4096, 4482, 4097, 3112, 4265, 3117, 4616, 4449
 FATTAL, S.G. 3084
 FENVES, S.J. 4116, 4132
 FISHER, W.S. 4555

FLEMING, J. 4618
 FROHNSDORFF, G.J. 676, 4315, 677, 4209, 4671, 4173, 675, 4688, 4703, 4687, 4507, 4001, 3011, 4042, 4014, 4172, 4548
 FULLER, E. 4548

G

GAGGIOLI, R. 4438
 GALAMBOS, T.V. 3064
 GALOWIN, L.S. 3108, 3109
 GALUK, K.G. 4522, 4249, 2996
 GARBOCZI, E.J. 4701
 GARTNER, E.M. 4222
 GAYNOR, P. 4276
 GILLETTE, G.L. 4074, 4458, 4238, 4588, 4181, 4661, 4555
 GODETTE, M. 4066
 GOSS, W.P. 4212, 3036
 GREENBERG, J. 3115, 4451
 GRIMES, J.W. 118, 4208
 GROSS, J.G. 4103, 4493, 4722, 4102, 4721, 4582, 4262, 4261, 4379, 4380
 GROSS, J.L. 4594, 4595, 3081, 4353, 2657, 4499, 4287, 4449, 4321, 4330
 GROT, R.A. 3023, 4240, 4541, 4610, 4564, 4644, 3035, 4535, 4418, 4620, 4297, 4308, 4232

H

HANKS, T. 4196
 HARRIS, J.E. 4215
 HARRISON, R.J. 4423
 /SANDIA
 HARRJE, D.T. 2900
 HARTMANN, M. 4626
 HELLIER, A.K. 4194
 HENDRICKSON, E.M. 4189, 3071, 4185, 3083, 4262, 4321, 4261, 4380

HICHO, G.E.	4449
HILL, D.D.	4156,3119,4125,3123
HILL, J.E.	4614,4487
HOCKEY, K.A.	4099,4256
HODGSON, A.T.	4610
HOLLAND, D.B.	4152,4181
HOLMES, R.	4639
HOWETT, G.L.	974,2811,4158
HSU, N.N.	4376,4351,4352,3070, 4347,4348,4359
HUSMANN, R.	4639
HWANG	3069

I

INGRAFFEA, A.R.	4194
ISHIGURO, K.	4620

J

JAGANNATH, B.	4691
JENNINGS, H.M.	4042,4017,4018,4020, 3137,4019,4046,4016, 4205,4001,4222,4208, 4209,4014,3011,4507, 4626
JOHNSON, M.	4652,4374,4367
JOHNSON, S.K.	3137,4016,4626,4042
JONES, N.	4577
JUNG, D.S.	4483,4253,4554,4444

K

KAETZEL, L.J.	4716,4099,4316,4098, 2936,4692, 118,4545, 4317,4626
KANARE, H.	4628,4589
KANDASAMY, V.	3068
KAO, J.Y.	4405,4148
KAUFFELD, M.	4397,4503
KEDZIERSKI, M.A.	4403,4551
KELLY, G.E.	4166,4440,4340,4191, 3114,4557,4405,3089, 4540,4406,4296

KLEIN, M.D.	3027
KLEIN, S.A.	3112,3117
KNAB, L.I.	4259,4677,4258,4668, 4287,4676,4708,4580,
KOLOS, R.M.	4227
KONEN, T.	3108
KOPANDA, J.	677
KUMARASENA, T.	3078
KUO, B.Y.	4158
KURABUCHI, T.	4535
KWELLER, E.R.	3120,3107

L

LADD, R.S.	4641
LANE, O.J.	4708
LECHNER, J.R.	4272
LEIGH, S.D.	3068
LENKER, S.	4589
LEW, H.S.	4353,4367,4311,4374, 4354,4312,4596,2657, 4355,4362,4569,4357, 4495,4635,4571,4275
LEYENDECKER, E.V.	4197,4198,4370,4196
LICITRA, B.A.	3025,4339,4218,3021, 4354,4312,4596,2657, 4265,4390,3039
LIN, C.	4627,4513,4673,4680, 4625,4623
LIU, S.T.	3106,4075,4439,4440, 4540,4133
LOPEZ, L.A.	4663
LYONS, J.W.	3020

M

MAHAJAN, B.M.	4584,3119,4487,4260, 2929,4125,4211,4263, 4106,3123,4250
MAKINS, L.	4618
MARANS, R.W.	4555
MARSHALL, R.	4736,4817,4816,4574, 4321

MARTIN, J.W. 4317, 4689, 4670, 4560,
4559, 4534, 4048, 4049,
2989, 4567, 4047, 4845,
4712, 4544, 4545
MASTERS, L.W. 4743, 4226, 3012, 4061,
4173, 4537, 4846
MATHENA, L.R. 4659
MATHEY, R.G. 4561, 4314, 4286, 4287
4058, 4581, 3006, 2808,
2997, 4474, 4244, 4523,
4622, 4054, 2999, 4262,
4261, 4493
MAYERSON, S.E. 4158
MAYNE, P.W. 4517, 3080
MCCABE, M.E. 4156, 4212, 4214, 3036,
2943, 4113
MCKNIGHT, M.E. 4845, 4060, 3006, 4544
4707, 4512, 4562, 4710,
4534, 4545, 4317
MCLEAN, D.M. 4312, 4275, 4311
MCLINDEN, M.O. 4147, 4387, 4398, 4435,
4444, 4253, 4292, 4536,
3122, 4210, 4397, 4503,
2899, 3041, 3042
MCNALL, P.E. 4387, 3122, 4147
MORRISON, G. 4620
MULLIGAN, J.L. 4397, 4400, 4395, 3121,
4180, 2912, 4503, 4148
MURPHY, J.F. 3083

N

NABINGER, S.J. 4657
NAKAI 3069
NEWMAN, H.M. 4484
NGUYEN, T. 4515, 4545, 4086, 4084,
4229, 4509, 4625, 4512,
4623, 4511, 4674, 4090,
4085, 4332, 4513, 4089,
4083, 4091, 4087, 2988,
4680, 4508, 4627, 4673,
4534
NOLAN, W.A. 3068
NORFORD, L.K. 4213, 3029

O

O'CONNELL, M.E. 2840
OLSON, C. 4085
OLTIKAR, B.C. 4224
ORENSTEIN, G.S. 4494

P

PALMER, M.E. 4618, 4128, 4423, 4234
PARK, C. 4296, 3114, 4557, 3089
PARROTT, L.J. 4017, 4018
PEAVY, B. 3030, 3031
PERSILY, A.K. 4418, 4486, 4213, 4270,
4657, 4447, 2897, 4151,
4563, 4543, 4767, 3023,
4155, 4564, 4613, 3029,
4240, 4232, 4457
PESSIKI, S.P. 4358, 4349
PETERSEN, S.R. 4616, 4237
PHAN, L.T. 4601, 4275, 4367, 4312,
4374, 4311, 4635, 4569
PHILLEO, R.E. 4699
PIELERT, J.H. 4488, 4227, 4204, 4313,
4489, 4714, 4696, 4671
POMMERSHEIM, J.M. 4561, 4507, 3011
PORTER, L.G. 3040
PRATT, P. 4205

R

RABL, A. 3029
RADERMACHER, R. 4407, 4210, 4444, 4253
RAMIREZ, J.A. 4652
RAUFASTE, N.J. 4653, 4654, 4326, 4327,
4498, 4497, 4592, 4496,
4062, 3082, 4099
REED, K.A. 4538, 4293, 4285, 4663,
4132, 4456
REED, P. 4691
REEDER, B.C. 4392
REEVE, C.P. 4199, 3139
REICH 3069
REMINGTON, D. 4618
RENNEX, B.G. 4468, 3030, 3031

RINAUDOT, G.R. 4456
 ROBERTS, W.E. 4244, 4474, 4707, 4622, 4546
 RODRIGUEZ-CUEVAS, N. 4195
 ROSS, H.D. 4407, 4127
 ROSSINGTON, D 4629
 ROSSITER, W.J. 4547, 4474, 4520, 4546, 4054, 4667, 4223, 4694, 4056, 4052, 4472, 4053, 4057, 2808, 4286, 4523, 4669, 2997, 4666, 4244, 4055, 4525, 4065, 4528, 4526, 4527, 4621, 4524, 4519, 4632, 4537, 4243, 4622, 2999, 4518, 2996, 4225, 4559, 4522
 RUBIN, A.I. 4077, 4078, 4433, 4477, 4079, 4076, 4464, 4236, 4588, 3038
 RUDDER, F.F. 2706

S

SANSALONE, M. 4343, 4347, 4348, 4346, 4345, 4375, 4359, 4324, 3070, 4360, 4351, 4378, 4352, 4350, 3077, 4376, 4379, 4194, 4261, 4262, 4380, 4311
 SCANLAN, R.H. 4577, 4188
 SCRIBNER, C. 4323, 4371, 4059, 4370, 4341, 4276, 4729, 4642, 4493, 4321, 4262, 4261
 SEILER, J.F. 4669, 4694, 4472, 4667, 4621, 4547, 4519, 4512
 SHINOZUKA 3069
 SHIVES, R.T. 4449
 SHOBACK, P.J. 3024
 SILBERSTEIN, S. 4470, 4620, 4429, 4430
 SIMIU, E. 3068, 4533, 4273, 4272, 4187, 3071, 4640, 4637, 4373, 4529, 4328, 4189, 4355, 4185, 4188, 4531,

4576, 4575, 4578, 4532, 3078, 4577, 4530, 4655, 4261, 4262, 4380
 SLAVA, M.T. 4116
 SMALL, J.A. 4287
 SMITH, B. 4456
 SMITH, J.H. 4366, 4594, 4449
 SOCOLOW, R.H. 3029
 SOMERS, T.A. 4468, 4414, 4463, 4585
 SORG, J. 4639
 SPRING, C.B. 4489, 4313, 4668, 4677
 SPRINKEL, M.M. 4708
 STAHL, F.I. 4132
 STONE, W.C. 4571, 2871, 4656, 4597, 4727, 4195, 4198, 4196, 3139, 4495, 4199, 4200, 4453, 4357, 4197, 4167, 4382, 4194, 4262, 4261, 4380, 4493
 STREICHER, M.A. 4546
 STRUBLE, L.J. 2987, 4241, 4471, 4333, 4603, 4629, 4492, 4628, 2984, 2985, 4014, 4605, 4626, 4604, 4289, 4334, 4548, 4695, 4206, 4307, 2986, 4209, 4589, 3011, 4507
 STUTZMAN, P.E. 4589, 4334, 4492, 4694, 4548, 4547
 SWAFFIELD, J.A. 3109

T

TALEB, H. 4020, 4001
 TANG, F. 4589
 TANK, R.C. 4450
 THOMAS, W.C. 4587, 2990, 4542, 4658, 4659
 TOKAR, M. 4691
 TREADO, S.J. 4267, 4586, 4152, 4611, 4459, 4269, 4238, 4181, 4458, 4074
 TSAO, A. 4084, 2988
 TSAROS, T. 4438
 TURNER, W. 4232

V

VANBRONKHORST,
D.A. 4657
VILLOT, M. 2704

W

WAKSMAN, D. 2990
WALTON, G.N. 4431, 4552, 4556, 4237,
4219, 3033, 4149, 4476,
4153, 3025, 3039, 3021,
3027
WARD, D.B. 4405, 4659
WARD, D.K. 4395
WATERS, N.E. 4307, 4676
WEBB, R.L. 4403
WEBER, S. 4400
WEBSTER, J. 4639
WISE, R.A. 3120
WITZGALL, C. 4597
WOODWARD, K. 4276
WORTHEY, J.A. 3022, 4157, 4617, 4565,
4158, 4396, 4266, 4465
WRIGHT, R.N. 4132, 4364, 4366, 4724,
3020, 4383, 4593, 4721,
4382, 4592, 4494, 4379,
4380, 4449, 4262, 4261
4594, 4647
WRIGHT, T. 4618, 4456

Y

YANCEY, C.W. 4451, 3077, 4729, 4642
4321
YANIV, S.L. 2706, 2704
YINGLING, R. 3108
YOKEL, F.Y. 4517, 4502, 4500, 4636
4731, 4650, 4651, 4641
4321, 4382, 3080, 3085
4198, 4196, 4380, 4449
4261, 4262

Z

ZARR, R.R. 4414, 4220, 4585, 4463,
4437, 4339, 3026, 2840,
4192, 4390, 4468

NIST PUBLISHED REPORTS INDEX

BUILDING SCIENCE SERIES

RPT REF NUMBER

NBS BUILDING SCIENCE SERIES 165	
ENGINEERING ASPECTS OF THE 1985 MEXICO EARTHQUAKE.....	4196
NBS BUILDING SCIENCE SERIES 167	
INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS.....	4472
NIST BUILDING SCIENCE SERIES 166	
INELASTIC BEHAVIOR OF FULL-SCALE BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING.....	4656

TECHNICAL NOTES

NBS TECHNICAL NOTE 1218	
MODELING OF A HEAT PUMP CHARGED WITH A NONAZEOTROPIC REFRIGERANT MIXTURE.....	2927
NBS TECHNICAL NOTE 1226	
APPLICATION OF A HARD-SPHERE EQUATION OF STATE TO REFRIGERANTS AND REFRIGERANT MIXTURES.....	3122
NBS TECHNICAL NOTE 1247	
REVIEW OF NONDESTRUCTIVE EVALUATION METHODS APPLICABLE TO CONSTRUCTION MATERIALS AND STRUCTURES.....	4314
NBS TECHNICAL NOTE 1253	
AN ELECTROCHEMICAL TECHNIQUE FOR RAPIDLY EVALUATING PROTECTIVE COATINGS ON METALS.....	4513
NIST TECHNICAL NOTE 1266	
DEVELOPMENT OF A METHOD TO MEASURE IN-SITU CHLORIDE AT THE METAL/COATING INTERFACE.....	4625
NIST TECHNICAL NOTE 1269	
MANUAL FOR THE CEMENT HYDRATION SIMULATION MODEL.....	4626

SPECIAL PUBLICATIONS

NBS SPECIAL PUBLICATION 729	
NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY STUDY....	4059
NBS SPECIAL PUBLICATION 736	
PROCEEDINGS OF THE CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES.....	4313
NIST SPECIAL PUBLICATION 760	
SIMILITUDE STUDIES OF PROTOTYPE AND 1/6-SCALE MODEL BRIDGE COLUMNS UNDER REVISED CYCLIC LOADING.....	4495
NIST SPECIAL PUBLICATION 760	
U.S. SIDE: ACCOMPLISHMENTS AND CHALLENGES - PANEL ON WIND AND SEISMIC EFFECTS, PROCEEDINGS OF THE 20TH JOINT MEETING....	4592
NIST SPECIAL PUBLICATION 760	
WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 20TH JOINT MEETING.....	4654
NIST SPECIAL PUBLICATION 776	
INFLUENCE OF HORIZONTAL REINFORCEMENT ON SHEAR RESISTANCE OF CONCRETE BLOCK MASONRY WALLS.....	4642

JOURNAL OF RESEARCH

NIST JOURNAL OF RESEARCH VOL. 94, NO.5	
ROOFING PERFORMANCE: 9TH CONFERENCE ON ROOFING TECHNOLOGY.....	4632

LETTER REPORTS

NBS LETTER REPORT	
DYNAMICS AND RELIABILITY OF COMPLIANT DRILLING AND PRODUCTION PLATFORMS.....	4373
NBS LETTER REPORT	
FAA LIRS STRUCTURAL COMPONENT TESTS.....	4816
NIST LETTER REPORT	
COLLAPSE OF FILING SYSTEM IN NOAA SILVER SPRING OFFICE.....	4650
NIST LETTER REPORT	
TESTS OF CONCRETE CORES FOR SILVER SPRING METRO CENTER 1.....	4733
NIST LETTER REPORT (TO GSA)	
INTERPRETATION OF PROBE PENETRATION TEST RESULTS SILVER SPRING METRO CENTER 1.....	4734

INTERAGENCY REPORTS

NBS INTERAGENCY REPORT 84-3378	
EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT FLUX DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE.....	3106
NBS INTERAGENCY REPORT 85-3202	
LINEAR OPPONENT-COLORS MODEL OPTIMIZED FOR BRIGHTNESS PREDICTION.....	2811
NBS INTERAGENCY REPORT 85-3271	
PERIMETER SAFETY NET PROJECTION REQUIREMENTS.....	3077
NBS INTERAGENCY REPORT 85-3279	
RECOMMENDED PRACTICES FOR U.S. POSTAL SERVICE ROOFING PROGRAM..	2999
NBS INTERAGENCY REPORT 86-3301	
RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING MODE.....	3134
NBS INTERAGENCY REPORT 86-3305	
RATIONALE AND PLAN FOR CENTER FOR BUILDING TECHNOLOGY RESEARCH TO IMPROVE INDOOR AIR QUALITY.....	2899
NBS INTERAGENCY REPORT 86-3311	
GUIDELINES FOR THE PREVENTION OF TRAFFIC NOISE PROBLEMS.....	2706
NBS INTERAGENCY REPORT 86-3317	
DIRECTIONAL HURRICANE WIND SPEEDS.....	3071
NBS INTERAGENCY REPORT 86-3323	
OUTLINE OF AN EXPERT SYSTEM APPROACH TO RESIDENTIAL AIR INFILTRATION.....	2897
NBS INTERAGENCY REPORT 86-3325	
INORGANIC COMPOUNDS FOR PASSIVE SOLAR ENERGY STORAGE -- SOLID STATE DEHYDRATION MATERIALS AND HIGH SPECIFIC HEAT MATERIALS...	2984
NBS INTERAGENCY REPORT 86-3326	
MAGNESIUM OXYCHLORIDE CEMENT-BASED FORM INSULATION: A LITERATURE SURVEY.....	2997
NBS INTERAGENCY REPORT 86-3331	
HVACSIM+ BUILDING SYSTEMS AND EQUIPMENT SIMULATION PROGRAM - BUILDING LOADS CALCULATION.....	3089
NBS INTERAGENCY REPORT 86-3332	
A BULLETIN BOARD SYSTEM FOR FEEDBACK TO THE DURCON EXPERT SYSTEM: A DESCRIPTION AND REFERENCE.....	2936
NBS INTERAGENCY REPORT 86-3346	
INITIAL TEST RESULTS AND TEST PLAN FOR DIFFERENTIAL TEMPERATURE CONTROLLERS USED IN SOLAR ENERGY SYSTEMS.....	3115
NBS INTERAGENCY REPORT 86-3347	
SUGGESTED APPROACHES FOR REVISIONS OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND TENSILE FATIGUE STRENGTH TESTS OF BITUMINOUS MEMBRANES.....	4054
NBS INTERAGENCY REPORT 86-3351	
HELICAL PROBE TESTS FOR SHALLOW SOIL EXPLORATION.....	3080

NBS INTERAGENCY REPORT 86-3364	
WIND AND SEISMIC EFFECTS - PROCEEDINGS OF THE 17TH JOINT PANEL MEETING.....	3082
NBS INTERAGENCY REPORT 86-3367	
A COMPUTER PROGRAM FOR CALCULATING HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS.....	3028
NBS INTERAGENCY REPORT 86-3373	
IMPACT OF REFRIGERANT PROPERTY UNCERTAINTIES ON PREDICTION OF VAPOR COMPRESSION CYCLE PERFORMANCE.....	3113
NBS INTERAGENCY REPORT 86-3375	
TENSILE PROPERTIES OF PLEATED SYNTHETIC ROPE.....	3084
NBS INTERAGENCY REPORT 86-3377	
EFFECT OF INTERIOR MASS SURFACES ON SPACE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE.....	3021
NBS INTERAGENCY REPORT 86-3381	
MINIMUM LIFE CYCLE COST HEAT LOSSES FOR SHALLOW TRENCH UNDERGROUND HEAT DISTRIBUTION SYSTEMS.....	3034
NBS INTERAGENCY REPORT 86-3387	
INVESTIGATION OF THE CORROSION OF ALUMINUM STANDING-SEAM ROOFING AT AN ARMY FACILITY.....	4058
NBS INTERAGENCY REPORT 86-3388	
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: LITERATURE REVIEW.....	4311
NBS INTERAGENCY REPORT 86-3397	
EXECUTIVE SUMMARY - CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES.....	4488
NBS INTERAGENCY REPORT 86-3399	
COMPARISON OF MEASURED AND PREDICTED SENSIBLE HEATING AND COOLING LOADS FOR SIX TEST BUILDINGS.....	3025
NBS INTERAGENCY REPORT 86-3403	
FINAL EVALUATION OF A COLOR CALIBRATOR FOR A RADAR REMOTE WEATHER DISPLAY SYSTEM.....	3040
NBS INTERAGENCY REPORT 86-3406	
ANALYSIS OF SHORING LOADS & SLAB CAPACITY FOR MULTI-CONCRETE CONS.....	2657
NBS INTERAGENCY REPORT 86-3409	
VISUAL ASSESSMENT OF HOLOGRAMS.....	3037
NBS INTERAGENCY REPORT 86-3412	
DOE/NBS FORUM ON TESTING AND RATING PROCEDURES FOR CONSUMER PRODUCTS.....	3118
NBS INTERAGENCY REPORT 86-3418	
STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: AN ALTERNATIVE TO THE TENSILE STRENGTH CRITERION.....	4052

NBS INTERAGENCY REPORT 86-3419	
MAT FOUNDATIONS FOR OFFSHORE STRUCTURES IN ARCTIC REGIONS.....	4500
NBS INTERAGENCY REPORT 86-3422	
THE PERFORMANCE OF A CONVENTIONAL RESIDENTIAL SIZED HEAT PUMP OPERATING WITH A NONAZEOTROPIC BINARY REFRIGERANT MIXTURE.....	3121
NBS INTERAGENCY REPORT 86-3423	
STUDY OF REVERSE TORQUE RATIO IN THE HELICAL PROBE TEST.....	3085
NBS INTERAGENCY REPORT 86-3426	
MODELLING WINDOW OPTICS FOR BUILDING ENERGY ANALYSIS.....	3033
NBS INTERAGENCY REPORT 86-3430	
REVISED INTERIM DESIGN GUIDELINE FOR AUTOMATED OFFICES.....	3038
NBS INTERAGENCY REPORT 86-3440	
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE STRUCTURES FOR THE ARCTIC: PLANNING OF EXPERIMENTAL STUDY.....	4275
NBS INTERAGENCY REPORT 86-3450	
AN INVESTIGATION OF HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS.....	4127
NBS INTERAGENCY REPORT 86-3452	
IMPACT-ECHO: A METHOD FOR FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES.....	4350
NBS INTERAGENCY REPORT 86-3453	
PLAN FOR A DESIGN STUDY FOR A NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY.....	4370
NBS INTERAGENCY REPORT 86-3454	
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: 1/25-SCALE MODEL STUDY.....	4312
NBS INTERAGENCY REPORT 86-3455	
INVESTIGATION OF THE USE OF NONDESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF SINGLE-PLY ROOFING MEMBRANES.....	4053
NBS INTERAGENCY REPORT 86-3458	
EFFECT OF WALL MASS ON PEAK SPACE SENSIBLE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE.....	3027
NBS INTERAGENCY REPORT 86-3462	
SPECIFICATIONS FOR THERMAL AND ENVIRONMENTAL EVALUATIONS OF ADVANCED-TECHNOLOGY OFFICE BUILDINGS.....	4151
NBS INTERAGENCY REPORT 86-3463	
ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS.....	4153
NBS INTERAGENCY REPORT 86-3465	
EVALUATION OF A STANDARD DEVICE FOR CALIBRATING CALORIMETER TEST ROOMS.....	4180
NBS INTERAGENCY REPORT 86-3467	
INFLUENCE OF MORTAR BEDDING ON MASONRY PRISM BEHAVIOR.....	4276

NBS INTERAGENCY REPORT 86-3476	
THE CURRENT ABILITY OF THE ARCHITECTURE, ENGINEERING, AND CONSTRUCTION INDUSTRY TO EXCHANGE CAD DATA SETS DIGITALLY.....	4128
NBS INTERAGENCY REPORT 86-3489	
FENESTRATION DESIGN FOR OFFICE AND RESIDENTIAL BUILDINGS.....	4152
NBS INTERAGENCY REPORT 86-3493	
SAFETY COLOR APPEARANCE UNDER SELECTED LIGHT SOURCES.....	4158
NBS INTERAGENCY REPORT 86-3494	
BEHAVIOR OF 1/6-SCALE MODEL BRIDGE COLUMNS SUBJECTED TO CYCLIC INELASTIC LOADING.....	4167
NBS INTERAGENCY REPORT 86-3499	
EFFECT OF VOLATILE ORGANIC REGULATIONS ON THE SELECTION AND USE OF COATINGS INCLUDED IN AFM 85-3.....	4060
NBS INTERAGENCY REPORT 87-3504	
EPOXY IMPREGNATION OF HARDENED CEMENT PASTES FOR CHARACTERIZATION OF MICROSTRUCTURE.....	4206
NBS INTERAGENCY REPORT 87-3513	
INTRODUCTION TO SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION	4132
NBS INTERAGENCY REPORT 87-3514	
SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION PROGRAM: USER MANUAL.....	4116
NBS INTERAGENCY REPORT 87-3525	
GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS.....	4157
NBS INTERAGENCY REPORT 87-3528	
FIELD PERFORMANCE OF THREE RESIDENTIAL HEAT PUMPS IN THE HEATING MODE.....	4148
NBS INTERAGENCY REPORT 87-3529	
THE USE OF ARTIFICIAL INTELLIGENCE PROGRAMMING TECHNIQUES FOR COMMUNICATION BETWEEN INCOMPATIBLE BUILDING INFORMATION SYSTEMS.....	4146
NBS INTERAGENCY REPORT 87-3537	
PERFORMANCE OF INSTANTANEOUS GAS-FIRED WATER HEATERS.....	4215
NBS INTERAGENCY REPORT 87-3540	
WIND AND SEISMIC EFFECTS.....	4062
NBS INTERAGENCY REPORT 87-3542	
PRELIMINARY PERFORMANCE CRITERIA FOR STONE TREATMENTS FOR THE UNITED STATES CAPITOL.....	4207
NBS INTERAGENCY REPORT 87-3565	
BUILDING TECHNOLOGY PROJECT SUMMARIES, 1987.....	4327
NBS INTERAGENCY REPORT 87-3569	
INTERIM PROCEDURE TO MEASURE THE THERMAL PERFORMANCE OF WINDOW SYSTEMS.....	4212

NBS INTERAGENCY REPORT 87-3575	
MEASUREMENT OF THE SETTING TIME AND STRENGTH OF CONCRETE BY THE	
IMPACT-ECHO METHOD.....	4349
NBS INTERAGENCY REPORT 87-3594	
FENESTRATION DESIGN FOR BUILDING ATRIA.....	4181
NBS INTERAGENCY REPORT 87-3599	
POTENTIAL APPLICATIONS OF A SEQUENTIAL CONSTRUCTION ANALYZER	
.....	4226
NBS INTERAGENCY REPORT 87-3606	
INTERIM SURVEY OF SELECTED MILITARY BUILDING ENVIRONMENT:	
A RESEARCH APPROACH.....	4236
NBS INTERAGENCY REPORT 87-3611	
INTERFACE BOND STRENGTH OF ORGANIC FILMS ON METALS USING	
REFLECTION/ABSORPTION FTIR.....	4512
NBS INTERAGENCY REPORT 87-3617	
CALCULATIONS OF MAXIMUM ALLOWABLE HEAT LOSSES FOR VARIOUS	
SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS.....	4230
NBS INTERAGENCY REPORT 87-3619	
THERMAL AND ECONOMIC ANALYSIS OF THREE HVAC SYSTEM TYPES IN	
A TYPICAL VA PATIENT FACILITY.....	4237
NBS INTERAGENCY REPORT 87-3621	
FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS:	
THE BASIS FOR A FIELD TEST METHOD.....	4244
NBS INTERAGENCY REPORT 87-3631	
BUILDING TECHNOLOGY PUBLICATIONS SUPPLEMENT 10: 1985-86.....	4256
NBS INTERAGENCY REPORT 87-3632	
THE INFLUENCE OF CEMENT PORE SOLUTION ON ALKALI-SILICA REACTION	
.....	4241
NBS INTERAGENCY REPORT 87-3636	
REPORT TO CONGRESS ON THE STRUCTURAL ASSESSMENT OF THE NEW	
US EMBASSY OFFICE BUILDING IN MOSCOW.....	4261
NBS INTERAGENCY REPORT 87-3637	
STRUCTURAL ASSESSMENT OF THE NEW US EMBASSY OFFICE BUILDING	
IN MOSCOW.....	4262
NBS INTERAGENCY REPORT 87-3640	
INVESTIGATION OF L'AMBIANCE PLAZA BUILDING COLLAPSE IN	
BRIDGEPORT, CONNECTICUT.....	4321
NBS INTERAGENCY REPORT 87-3642	
AN INITIAL INVESTIGATION OF THE PROPERTIES AND PERFORMANCE OF	
MAGNESIUM OXYCHLORIDE-BASED FOAM THERMAL INSULATION.....	4518
NBS INTERAGENCY REPORT 87-3656	
EXPERIMENTAL PLAN FOR INVESTIGATION OF LIGHTING AND HVAC	
INTERACTIONS.....	4269

NBS INTERAGENCY REPORT 87-3666	
A METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS CONTAMINANT REMOVAL DEVICES.....	4260
NBS INTERAGENCY REPORT 87-3667	
THE WHITTIER NARROWS EARTHQUAKE OF OCTOBER 1, 1987: A RECONNAISSANCE REPORT.....	4354
NBS INTERAGENCY REPORT 87-3670	
A REVIEW OF AUTOCLAVED AERATED CONCRETE PRODUCTS.....	4286
NBS INTERAGENCY REPORT 87-3676	
PROCEDURES FOR SPRINKLER INSTALLATION ON SURFACES WITH FIREPROOFING MATERIALS.....	4287
NBS INTERAGENCY REPORT 87-3685	
TENSILE TEST TO MEASURE ADHESION BETWEEN OLD AND NEW CEMENT PASTE.....	4307
NBS INTERAGENCY REPORT 87-3687	
STANDARDS FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES.....	4392
NBS INTERAGENCY REPORT 87-3688	
OFFICE DESIGN MEASUREMENTS FOR PRODUCTIVITY - A RESEARCH OVERVIEW	4433
NBS INTERAGENCY REPORT 88-1247	
ROOM-TEMPERATURE THERMAL CONDUCTIVITY MEASUREMENTS OF FUMED-SILICA INSULATION FOR A STANDARD REFERENCE MATERIAL.....	4414
NBS INTERAGENCY REPORT 88-3693	
STRATEGIES FOR IMPLEMENTING IGES (INITIAL GRAPHICS EXCHANGE SPECIFICATION) FOR THE OPERATIONS OF NAVFAC (NAVAL FACILITIES ENGINEERING COMMAND).....	4234
NBS INTERAGENCY REPORT 88-3702	
EPOXY IMPREGNATION PROCEDURE FOR HARDENED CEMENT SAMPLES.....	4334
NBS INTERAGENCY REPORT 88-3703	
WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 19TH JOINT PANEL MEETING.....	4326
NBS INTERAGENCY REPORT 88-3708	
TRACER GAS TECHNIQUES FOR STUDYING BUILDING AIR EXCHANGE.....	4457
NBS INTERAGENCY REPORT 88-3711	
GUIDELINES AND PROCEDURES FOR IMPLEMENTATION OF EXECUTIVE ORDER ON SEISMIC SAFETY.....	4451
NBS INTERAGENCY REPORT 88-3719	
AN AUTOMATED MAINTENANCE MANAGEMENT PROGRAM PART I: QUANTITATIVE ASSESSMENT OF THE EXTERIOR CONDITION OF METAL BUILDINGS AND ROOFING SYSTEMS (ETC.).....	4317
NBS INTERAGENCY REPORT 88-3723	
CAPACITY AND OVERLOAD TESTS OF A 7-1/2 TON PACKAGE UNIT AIR CONDITIONER.....	4395

NBS INTERAGENCY REPORT 88-3724	
FLAME ROLL-OUT STUDY FOR GAS FIRED WATER HEATERS.....	4405
NBS INTERAGENCY REPORT 88-3739	
COMPARISON OF DIRECT DIGITAL CONTROL AND PNEUMATIC CONTROL SYSTEMS IN A LARGE OFFICE BUILDING.....	4406
NBS INTERAGENCY REPORT 88-3740	
USERS GUIDE TO POST - PLANT OPERATIONS SIMULATION TEMPLATE.....	4340
NBS INTERAGENCY REPORT 88-3746	
EVALUATION OF TEST METHODS FOR MEASURING THE BOND OF PORTLAND CEMENT-BASED REPAIR MATERIALS TO CONCRETE.....	4668
NBS INTERAGENCY REPORT 88-3754	
A GLOBAL MODEL FOR BUILDING-PROJECT INFORMATION: ANALYSIS OF CONCEPTUAL STRUCTURES.....	4294
NBS INTERAGENCY REPORT 88-3760	
BUILDING TECHNOLOGY PROJECT SUMMARIES, 1988.....	4496
NBS INTERAGENCY REPORT 88-3761	
PREDICTING FORMALDEHYDE CONCENTRATIONS IN MANUFACTURED HOUSING RESULTING FROM MEDIUM-DENSITY FIBERBOARD.....	4430
NBS INTERAGENCY REPORT 88-3781	
RECOMMENDED PROCEDURE FOR RATING AND TESTING OF VARIABLE SPEED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS.....	4389
NBS INTERAGENCY REPORT 88-3788	
INELASTIC BEHAVIOR OF FULL-SCALE BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING.....	4453
NBS INTERAGENCY REPORT 88-3792	
INVESTIGATION INTO THE ASHLAND OIL STORAGE TANK COLLAPSE ON JANUARY 2, 1988.....	4449
NBS INTERAGENCY REPORT 88-3796	
LITERATURE REVIEW OF STRENGTHENING METHODOLOGIES OF EXISTING STRUCTURES.....	4367
NBS INTERAGENCY REPORT 88-3797	
LITERATURE REVIEW OF POST-INSTALLED ANCHORAGE IN CONCRETE.....	4374
NBS INTERAGENCY REPORT 88-3805	
REVISED UNITARY HEAT PUMP SPECIFICATION FOR MILITARY FAMILY HOUSING.....	4400
NBS INTERAGENCY REPORT 88-3807	
LIGHTS OF NEW YORK HARBOR.....	4465
NBS INTERAGENCY REPORT 88-3812	
WORKING FLUID SELECTION FOR SPACE-BASED TWO-PHASE HEAT TRANSPORT SYSTEMS.....	4398
NBS INTERAGENCY REPORT 88-3813	
INITIAL GRAPHICS EXCHANGE SPECIFICATION (IGES) VERSION 4.0.....	4456

NBS INTERAGENCY REPORT 88-3814	
PROGRESS TOWARD A GENERAL ANALYTICAL METHOD FOR PREDICTING INDOOR AIR POLLUTION IN BUILDINGS - INDOOR AIR QUALITY MODELING PHASE III REPORT.....	4391
NBS INTERAGENCY REPORT 88-3820	
COLLAPSE OF MASONRY WALL UNDER CONSTRUCTION IN PAWTUCKET, RI OCTOBER 28, 1985.....	4502
NBS INTERAGENCY REPORT 88-3827	
EVALUATION OF THE WORKING ENVIRONMENT AT SELECTED U.S. ARMY FIELD STATIONS; SUGGESTIONS FOR IMPROVEMENT.....	4464
NBS INTERAGENCY REPORT 88-3829	
TECHNICAL AND ECONOMIC ANALYSIS OF CFC-BLOWN INSULATIONS AND SUBSTITUTES FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION.....	4616
NBS INTERAGENCY REPORT 88-3849	
EXPERIMENTAL STUDY OF GUSSETED CONNECTIONS FOR LATERALLY BRACED STEEL BUILDINGS.....	4499
NBS INTERAGENCY REPORT 88-4009	
EVALUATION OF THERMAL PROBE METHOD FOR ESTIMATING THE HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS.....	4308
NBS INTERAGENCY REPORT 88-4012	
FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: FIELD EVALUATION OF PROTOTYPE TEST DEVICES.....	4622
NBS INTERAGENCY REPORT 88-3716	
COMPARISON OF CHROMOTROPIC ACID, PARAROSANILINE, AND GRAVIMETRIC FORMALDEHYDE DETERMINATIONS.....	4429
NIST INTERAGENCY REPORT 88-3846	
GUIDELINES FOR THE SPECIFICATION AND VALIDATION OF IGES APPLICATION PROTOCOLS.....	4423
NIST INTERAGENCY REPORT 88-3848	
FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: LABORATORY EVALUATION OF THE PROTOTYPE TEST DEVICES.....	4474
NIST INTERAGENCY REPORT 88-3855	
INTEGRAL MASS BALANCES AND PULSE INJECTION TRACER TECHNIQUES.....	4447
NIST INTERAGENCY REPORT 88-3860	
THE INTERACTION OF LIGHTING, HEATING, AND COOLING SYSTEMS IN BUILDINGS - INTERIM REPORT.....	4459
NIST INTERAGENCY REPORT 88-3861	
ROOM-TEMPERATURE THERMAL RESISTANCE MEASUREMENTS OF NEW AND EXISTING MATERIALS FOR SHIPBOARD AIR DUCT SYSTEMS.....	4463
NIST INTERAGENCY REPORT 88-3868	
A DISCRETE THERMAL ANALYSIS METHOD FOR BUILDING ENERGY SIMULATION PART 1 LINEAR THERMAL SYSTEMS WITH DTAM1 USERS MANUAL.....	4419
NIST INTERAGENCY REPORT 88-3870	
SUGGESTED RESEARCH TOPICS FOR THE CERL PROGRAM, EVALUATION OF ROOFING MATERIALS DEGRADATION PROCESSES.....	4537

NIST INTERAGENCY REPORT 88-3871	
ANALYSIS OF ENVIRONMENTAL DATA FROM THREE ARMY FIELD STATIONS.....	4477
NIST INTERAGENCY REPORT 88-3883	
A METHOD TO MEASURE THE TENSILE BOND STRENGTH BETWEEN TWO WEAKLY-CEMENTED SAND GRAINS.....	4676
NIST INTERAGENCY REPORT 88-3893	
REPORT OF ROOF INSPECTION: DELAMINATION OF ADHESIVE-BONDED SEAMS AT AN ARMY FACILITY.....	4519
NIST INTERAGENCY REPORT 88-3894	
EVALUATION OF COLORS FOR HIGHWAY APPLICATIONS.....	4478
NIST INTERAGENCY REPORT 88-4006	
ASSESSMENT OF ROBOTICS FOR IMPROVED BUILDING OPERATION AND MAINTENANCE.....	4487
NIST INTERAGENCY REPORT 88-4007	
PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURE FOR THE ARCTIC: RESULTS OF EXPERIMENTAL STUDY.....	4569
NIST INTERAGENCY REPORT 88-4008	
CORROSION OF METALLIC FASTENERS IN LOW-SLOPED ROOFS: A REVIEW OF AVAILABLE INFORMATION AND IDENTIFICATION OF RESEARCH NEEDS.....	4546
NIST INTERAGENCY REPORT 88-4010	
RELATIONSHIP BETWEEN APPEARANCE AND PROTECTIVE DURABILITY OF COATINGS: A LITERATURE REVIEW.....	4545
NIST INTERAGENCY REPORT 88-4914	
ILLUMINATION CONDITIONS AND TASK VISIBILITY IN DAYLIT SPACES.....	4267
NIST INTERAGENCY REPORT 89-4017	
PRELIMINARY PERFORMANCE CRITERIA FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES.....	4639
NIST INTERAGENCY REPORT 89-4026	
SET TIME CONTROL STUDIES OF POLYMER CONCRETE.....	4561
NIST INTERAGENCY REPORT 89-4028	
A GYPSUM WALLBOARD FORMALDEHYDE SORPTION MODEL.....	4470
NIST INTERAGENCY REPORT 89-4044	
SCREENING PROCEDURES FOR DETECTING LEAD IN EXISTING PAINT FILMS: A LITERATURE REVIEW.....	4562
NIST INTERAGENCY REPORT 89-4058	
STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION STUDIES.....	4603
NIST INTERAGENCY REPORT 89-4062	
GUIDELINES FOR IDENTIFICATION AND MITIGATION OF SEISMICALLY HAZARDOUS EXISTING FEDERAL BUILDINGS.....	4596

NIST INTERAGENCY REPORT 89-4066	
ENVIRONMENTAL EVALUATION OF THE PORTLAND EAST FEDERAL OFFICE	
BUILDING PREOCCUPANCY AND EARLY OCCUPANCY RESULTS.....	4564
NIST INTERAGENCY REPORT 89-4068	
BUILDING TECHNOLOGY PROJECT SUMMARIES 1989.....	4653
NIST INTERAGENCY REPORT 89-4069	
EVALUATING OFFICE LIGHTING ENVIRONMENTS: SECOND LEVEL ANALYSIS	
.....	4555
NIST INTERAGENCY REPORT 89-4071	
REVISION 1 - RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY	
AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING	
MODE.....	4566
NIST INTERAGENCY REPORT 89-4072	
AIRNET - A COMPUTER PROGRAM FOR BUILDING AIRFLOW NETWORK	
MODELING.....	4552
NIST INTERAGENCY REPORT 89-4083	
ACCELERATED VS. NATURAL WEATHERING OF COATINGS AND POLYMERIC	
MATERIALS: STATE-OF-THE-ART.....	4689
NIST INTERAGENCY REPORT 89-4085	
RESULTS OF A SURVEY OF THE PERFORMANCE OF EPDM ROOFING	
AT ARMY FACILITIES.....	4667
NIST INTERAGENCY REPORT 89-4086	
SERVICE LIFE OF CONCRETE.....	4580
NIST INTERAGENCY REPORT 89-4089	
STATIC TEST ON ONE-THIRD SCALE IMPACT LIMITER.....	4635
NIST INTERAGENCY REPORT 89-4094	
GUIDE SPECIFICATIONS AND REFERENCE SPECIFICATION SYSTEM.....	4581
NIST INTERAGENCY REPORT 89-4099	
TECHNOLOGY FOR COMPETITIVENESS OF THE U.S. CONSTRUCTION	
INDUSTRY.....	4647
NIST INTERAGENCY REPORT 89-4104	
A STUDY OF THE PERFORMANCE OF RESIDENTIAL BOILERS FOR SPACE	
AND DOMESTIC HOT WATER HEATING.....	4557
NIST INTERAGENCY REPORT 89-4106	
SITE CHARACTERIZATION FOR RADON SOURCE POTENTIAL.....	4636
NIST INTERAGENCY REPORT 89-4119	
A METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS CONTAMINANT	
REMOVAL FILTERS.....	4584
NIST INTERAGENCY REPORT 89-4120	
EXPERIMENTAL INVESTIGATION AND MODELING OF FLOW RATE OF	
REFRIGERANT 22 THROUGH SHORT TUBE RESTRICTOR.....	4550
NIST INTERAGENCY REPORT 89-4126	
VENTILATION AND AIR QUALITY INVESTIGATION OF U.S.G.S.	
BUILDING.....	4613

NIST INTERAGENCY REPORT 89-4133	
EVISM - AN EVAPORATOR MODEL ACCOUNTING FOR REFRIGERANT AND ONE DIMENSIONAL AIR DISTRIBUTION.....	4583
NIST INTERAGENCY REPORT 89-4134	
QUANTIFICATION OF HEAT LOSSES THROUGH STRUCTURAL SUPPORTS FOR SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS.....	4643
NIST INTERAGENCY REPORT 89-4145	
AIR QUALITY INVESTIGATION IN THE NIH RADIATION ONCOLOGY BRANCH.....	4657
NIST INTERAGENCY REPORT 89-4153	
SENSORS AND MEASUREMENTS TECHNIQUES FOR ASSESSING STRUCTURAL PERFORMANCE.....	4736
NIST INTERAGENCY REPORT 89-4154	
A PROPOSED METHODOLOGY FOR RATING AIR-SOURCE HEAT PUMPS THAT HEAT, COOL, AND PROVIDE DOMESTIC WATER HEATING.....	4607
NIST INTERAGENCY REPORT 89-4155	
REPORT OF ROOF INSPECTIONS: CHARACTERIZATION OF NEWLY FABRICATED ADHESIVE-BONDED SEAMS AT AN ARMY FACILITY.....	4694
NIST INTERAGENCY REPORT 89-4163	
INTERIM GUIDELINE FOR WORKSTATION DESIGN.....	4588
NIST INTERAGENCY REPORT 89-4164	
COOPERATIVE CALIBRATION AND ANALYSIS OF CEMENT CLINKER PHASES	4628
NIST INTERAGENCY REPORT 89-4172	
ABSORPTION OF HIGH-RANGE WATER-REDUCING AGENTS ON SELECTED PORTLAND CEMENT PHASES AND RELATED MATERIALS.....	4629
NIST INTERAGENCY REPORT 89-4175	
POST-OCCUPANCY EVALUATION OF SEVERAL U.S. GOVERNMENT BUILDINGS.....	4661
NIST INTERAGENCY REPORT 89-4178	
WORKSHOP ON CEMENT STABILIZATION OF LOW-LEVEL RADIO-ACTIVE WASTE.....	4691
NIST INTERAGENCY REPORT 89-4186	
PORE STRUCTURE OF CONCRETE AND FREEZING VULNERABILITY OF HIGH-PERFORMANCE CONCRETE.....	4699
NIST INTERAGENCY REPORT 89-4202	
INFLUENCE OF HORIZONTAL REINFORCEMENT ON THE SHEAR RESISTANCE OF CONCRETE BLOCK MASONRY WALLS.....	4729
NIST INTERAGENCY REPORT 89-4205	
POTENTIAL METHODS FOR MEASURING AND DETECTING LEAD IN EXISTING PAINT FILMS: A LITERATURE REVIEW.....	4710
NIST INTERAGENCY REPORT 89-4206	
INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS.....	4716

NIST INTERAGENCY REPORT 89-4207	
OVERVIEW OF IGES/PDES TESTING PROJECT.....	4618
NIST INTERAGENCY REPORT 89-4208	
AUTONOMOUS PROPULSION SYSTEM REQUIREMENTS FOR PLACEMENT	
OF AN STS EXTERNAL TANK IN LOW EARTH ORBIT.....	4727
NIST INTERAGENCY REPORT 89-4209	
METHODS FOR MEASURING LEAD CONCENTRATIONS IN PAINT FILMS.....	4707
NIST INTERAGENCY REPORT 89-4213	
EARTHQUAKE RESISTANT CONSTRUCTION OF ELECTRICAL TRANSMISSION	
AND COMMUNICATION FACILITIES SERVING THE FEDERAL GOVERNMENT...	4731
NIST INTERAGENCY REPORT 89-4219	
VENTILATION AND AIR QUALITY INVESTIGATION OF THE MADISON	
BUILDING PHASE I REPORT.....	4767
NIST INTERAGENCY REPORT 89-563	
DEVELOPMENT OF AN AUTOMATED PROBE FOR THERMAL CONDUCTIVITY	
MEASUREMENTS.....	4658
NIST INTERAGENCY REPORT 89-4156	
PRELIMINARY PERFORMANCE CRITERIA FOR THE BOND OF	
PORTLAND-CEMENT AND LATEX-MODIFIED CONCRETE OVERLAYS.....	4708

NON-NIST PUBLISHED REPORTS INDEX

RPT REF
NUMBER

1988 REVISION OF ANSI A58.1 PROCEEDINGS OF WERC/NSF WIND ENGINEERING SYMPOSIUM, KANSAS CITY, MO.....	4817
A COMPARISON OF TWO TEST METHODS FOR DETERMINING TRANSFER FUNCTION COEFFICIENTS FOR A WALL USING A CALIBRATED HOT BOX ASME JOURNAL OF HEAT TRANSFER.....	4339
A FINITE ELEMENT STUDY OF THE INTERACTION OF TRANSIENT STRESS WAVES WITH PLANAR FLAWS JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO. 4, PP. 267-279.....	4348
A FINITE ELEMENT STUDY OF TRANSIENT WAVE PROPAGATION IN PLATES JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO. 4, PP. 267-278.....	4347
A HEAT TRANSFER ANALYSIS OF METAL FASTENERS IN LOW-SLOPE ROOFS PROCEEDINGS OF SYMPOSIUM ON ROOFING AND STANDARDS DEVELOPMENT....	3024
A MASS SPECTROMETRIC INVESTIGATION OF THE THERMAL OXIDATIVE REACTIVITY OF ETHYLENE GLYCOL SOLAR ENERGY MATERIALS VOL. 13, PP. 197-202.....	2996
A METHOD FOR CHARACTERIZING THE DYNAMIC PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX ASHRAE TRANSACTIONS VOL. 94, PART 1.....	4220
A MICROELECTRODE TECHNIQUE FOR MEASURING CHLORIDE ION IN COATING BLISTERS AND CORROSION POTENTIAL AT THE COATING/METAL INTERFACE PROCEEDINGS OF THE AMERICAN CHEMICAL SOCIETY MEETING VOL. 61, PP. 728.....	4623
A MICROSTRUCTURAL FEATURE WHICH MAY BE RELATED TO STRENGTH OF CONCRETE 1ST NCB INTERNATIONAL SEMINAR ON PRAGMATIC STRATEGIES FOR PRODUCTIVITY AND MODERNIZATION, JAN. 6-9, 1987 IX-1 - IX-8.....	4014
A MIXING RULE FOR LIQUID VISCOSITIES OF REFRIGERANT MIXTURES INTERNATIONAL JOURNAL OF REFRIGERATION.....	4554
A MODEL FOR PARTICLE SIZE AND PHASE DISTRIBUTIONS IN CEMENT MICROSTRUCTURAL DEVELOPMENT IN CEMENT.....	4249
A NEW STATISTICAL METHOD FOR PREDICTION OF CONCRETE STRENGTH FROM IN-PLACE TESTS ASTM CEMENT, CONCRETE, AND AGGREGATES VOL. 8, NO. 1, PP. 10.....	4199
A POINT SOURCE - POINT RECEIVER TECHNIQUE FOR FLAW DETECTION IN CONCRETE JOURNAL OF THE AMERICAN CONCRETE INSTITUTE VOL. 83, NO. 2, PP. 199-208.....	4359
A PROCEDURE FOR MEASURING THE DYNAMIC THERMAL PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX ASHRAE TRANSACTIONS.....	4437

A RELIABILITY-BASED APPROACH TO SERVICE LIFE PREDICTION PROCEEDINGS OF SYMPOSIUM ON MATHEMATICAL MODELING OF LOW SLOPE ROOF SYSTEMS.....	4743
A REVIEW OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND TENSILE FATIGUE TESTS OF BITUMINOUS ROOFING MEMBRANES DURABILITY OF BUILDING MATERIALS VOL. 4, PP. 323-342.....	4523
A SELF-HEATED THERMISTOR FLOWMETER FOR FLOW MEASUREMENT IN A THERMOSYPHON SOLAR HOT WATER SYSTEM PROCEEDINGS OF THE 8TH ANNUAL ASME SOLAR ENERGY DIVISION CONFERENCE ANAHEIM, CALIFORNIA.....	4096
A SENSITIVITY STUDY OF THE REFRIGERANT PROPERTY UNCERTAINTIES ON THE VAPOR COMPRESSION CYCLE PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON HEAT AND MASS TRANSFER IN CYROENGINEERING & REFRIGERATION, DUBROVNIK, YUGOSLAVIA.....	4216
A SIMPLIFIED MODEL FOR PREDICTING CUMULATIVE SENSIBLE COOLING LOADS ASHRAE TRANSACTIONS VOL. 94, PART II.....	4265
A STATE-OF-THE-ART RESEARCH ASSESSMENT FOR RESIDENTIAL ATTIC CONDENSATION PROCEEDINGS OF THE WORKSHOP ON MOISTURE CONTROL IN BUILDINGS.....	2900
A WET CELL TO OBSERVE THE HYDRATION OF A CEMENT IN A SCANNING ELECTRON MICROSCOPE NATURE.....	4208
ACCELERATED AGING TEST DESIGN FOR COATING SYSTEMS PROCEEDINGS 15TH INTERNATIONAL CONFERENCE IN ORGANIC COATINGS SCIENCE AND TECHNOLOGY PP. 237.....	4567
ACCELERATED VERSUS NATURAL WEATHERING OF COATINGS AND OTHER POLYMERIC MATERIALS: A STATE OF THE ART PROCEEDINGS OF THE TNO SYMPOSIUM ON ACCELERATED VERSUS NATURAL WEATHERING OF COATINGS AND OTHERS.....	4670
ACTIVITIES OF CONSTRUCTION MATERIALS REFERENCE LABORATORIES RELATED TO LABORATORY ACCREDITATION ACCREDITATION PRACTICES FOR INSPECTIONS, TESTS, AND LABORATORIES STP 1057.....	4714
AIR EXCHANGE AND POLLUTANT CONCENTRATION MEASUREMENTS IN TWO OFFICE BUILDINGS PROCEEDINGS AT CIB CONFERENCE HEALTHY BUILDINGS '88, STOCKHOLM, SWEDEN.....	4418
AIRFLOW NETWORK MODELS FOR COMPONENT BASED BUILDING AIRFLOW MODELING ASHRAE TRANSACTIONS VOL. 95, PART 2.....	4476
ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS 4219 PROCEEDINGS OF 1987 ASME/AICHE JOINT HEAT TRANSFER CONFERENCE....	4219
AMPLIFICATION OF WIND EFFECTS ON COMPLIANT PLATFORMS WIND EFFECTS ON OFFSHORE PLATFORMS, STRUCTURES CONGRESS, AMERICAN SOCIETY OF CIVIL ENGINEERS, NEW ORLEANS, LA SEPT. 1986.....	3078

AN AC-IMPEDANCE SPECTROSCOPY STUDY OF THE EFFECTS OF SURFACE ROUGHNESS AND CONTAMINATION ON THE CORROSION BEHAVIOR OF EPOXY COATED STEEL PROCEEDINGS OF THE ELECTROCHEMICAL SOCIETY SYMPOSIUM VOL. 89-1, PP. 71-72.....	4673
AN EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD AIR CONDITIONER PROCEEDINGS OF THE IIR 1988 CONFERENCE, PROGRESS IN THE DESIGN AND CONSTRUCTION OF REFRIGERATION SYSTEMS.....	4503
AN EXPERT SYSTEM FOR DIAGNOSING AIR LEAKAGE AND MOISTURE PROBLEMS IN BUILDINGS PROCEEDINGS OF THE BTECC SYMPOSIUM ON AIR INFILTRATION, VENTILATION AND MOISTURE TRANSFER.....	4270
ANALYSIS OF IN-PLACE TEST DATA WITH SPREADSHEET SOFTWARE COMPUTER USE FOR STATISTICAL ANALYSIS OF CONCRETE TEST DATA ACI SP-101; PP. 1-26.....	2871
ANALYSIS OF SHORING LOADS AND SLAB CAPACITY FOR MULTISTORY CONCRETE CONSTRUCTION FORMING ECONOMICAL CONCRETE BUILDINGS ACI SP-90 PP. 109-125.....	4353
ANALYTICAL METHOD FOR BETTER FIRE SAFETY DESIGN NRC; NAS AND ENGINEERING.....	4498
APPLICATION LAYER COMMUNICATION PROTOCOLS FOR BUILDING ENERGY MANAGEMENT AND CONTROL SYSTEMS ASHRAE TRANSACTIONS VOL. 94, PART 2.....	4401
APPLICATION OF CCRL DATA IN THE DEVELOPMENT OF CEMENT STANDARDS ASTM SPECIAL TECHNICAL PUBLICATION STP 961.....	4489
APPLICATION OF MATHEMATICAL MODELING TO THE EVALUATION OF BUILDING VENTILATION SYSTEMS PROCEEDINGS OF 9TH AIR INFILTRATION AND VENTILATION CENTER CONFERENCE.....	4535
APPLICATION OF REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY JOURNAL COATING TECHNOLOGY VOL. 59, PP. 39.....	4084
APPLICATION OF THE CARNAHAN-STARLING-DeSANTIS EQUATION OF STATE TO MIXTURES OF REFRIGERANTS PROCEEDINGS ASME WINTER ANNUAL MEETING 86-WA/HT-59.....	4147
APPLICATION OF THERMAL WAVE ELECTRON MICROSCOPY TO IMAGE AND ASSESS CORROSION ON ROUGH STEEL MATERIALS AND STRUCTURES VOL. 22, PP. 71.....	4085
APPLYING EXPERT SYSTEMS TO BUILDING STANDARDS BUILDING DESIGN AND CONSTRUCTION MAGAZINE.....	4285
AQUEOUS SOLUBILITY RELATIONSHIPS FOR TWO TYPES OF CALCIUM SILICATE HYDRATE JOURNAL OF THE AMERICAN CERAMIC SOCIETY VOL. 69, PP. 614-618....	4019
ASHLAND TANK COLLAPSE INVESTIGATION JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES.....	4594
ASSESSMENT: US OFFICE BUILDING IN MOSCOW ASCE JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES VOL. 3, NO. 1, PP. 2-15.....	4379

ASTM COMMITTEE COMPLETES WORK ON EPDM SPECIFICATION 1987 HANDBOOK OF COMMERCIAL ROOFING SYSTEMS.....	4528
ASTM STANDARDS ACTIVITIES FOR SINGLE-PLY ROOFING: THE EPDM SPECIFICATION IS CLOSE TO COMPLETION RSI 1987 HANDBOOK OF COMMERCIAL ROOFING PP. 26-29.....	4225
BRICK MASONRY: US OFFICE BUILDING IN MOSCOW ASCE JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES.....	4493
BUILDING ENERGY SIMULATION USING ASSEMBLAGES OF DISCRETE THERMAL ELEMENTS PROCEEDINGS OF THE 11TH NATIONAL PASSIVE SOLAR CONFERENCE.....	4303
BUILDING MATERIALS: NONDESTRUCTIVE EVALUATION ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING.....	4068
BUILDING STRUCTURAL FAILURES - THEIR CAUSE AND PREVENTION JOURNAL OF PROFESSIONAL ISSUES IN ENGINEERING VOL. 112, NO. 4, PP. 236-248.....	4103
CALIBRATION OF THE NBS CALIBRATED HOT BOX JOURNAL OF TESTING AND EVALUATION.....	2840
CEMENTS: CALCIUM ALUMINATE ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING PP. 472-474...	677
CEMENTS: PORTLAND CEMENTS, BLENDED CEMENTS, AND MORTARS ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING PP. 3847-3854.....	676
CEMENTS: SPECIALTIES ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING PP. 575-579...	675
CFC'S - QUEST FOR ALTERNATIVES ASHRAE JOURNAL VOL. 29, NO. 12, PP.32-42.....	4292
CHAOTIC BEHAVIOR OF GALLOPING OSCILLATORS PROCEEDINGS OF 2ND ASIA-PACIFIC SYMPOSIUM ON WIND ENGINEERING....	4576
CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS PROCEEDINGS OF 6TH US NATIONAL CONFERENCE ON WIND ENGINEERING HOUSTON, TX.....	4575
CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS THE SIXTH U.S. NATIONAL CONFERENCE ON WIND ENGINEERING.....	4746
CHARACTERIZATION OF A PIEZOELECTRIC TRANSDUCER COUPLED TO A SOLID IEEE ULTRASONICS SYMPOSIUM.....	4376
CHARACTERIZATION OF CYLINDRICAL HOLES IN METALLIC SUBSTRATES VIA THEIR INFRARED EMISSION PATTERNS WEAR.....	4712
CHARACTERIZATION OF EPOXIDE COATINGS ON STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY - A QUANTITATIVE STUDY PROCEEDINGS OF THE FATIPEC CONGRESS XIX.....	4332
CHARACTERIZATION OF EPOXY COATINGS ON COLD ROLLED STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY JOURNAL OF APPLIED POLYMER SCIENCE 32 (1986) 6339.....	2988
CHARACTERIZATION OF POTENTIAL THERMAL DEGRADATION PRODUCTS FROM THE REACTIONS OF AQUEOUS ETHYLENE GLYCOL AND PROPYLENE GLYCOL SOLUTIONS WITH COPPER METAL SOLAR ENERGY MATERIALS VOL. 16, PP. 309-313.....	4522

CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES	
JOURNAL OF THERMAL INSULATION.....	3030
CODE REQUIREMENTS IN PLUMBING ENGINEERING FOR DWELLING WITH ACCEPTANCE OF WATER CONSERVATION	
PROCEEDINGS OF THE CIB 86 CONFERENCE.....	3108
COLOR AND LIGHTING	
ILLUMINATING ENGINEERING SOCIETY LIGHTING DESIGN AND APPLICATION.....	4179
COMBUSTION TESTING METHODS FOR CATALYTIC SPACE HEATERS	
ASHRAE TRANSACTIONS.....	3107
COMPARISON OF EXPERIMENTAL AND CALCULATED PERFORMANCE OF INTEGRAL COLLECTOR-STORAGE SOLAR WATER HEATERS	
SOLAR ENERGY JOURNAL VOL. 38, NO. 5, PP 303-309, 1987.....	3117
COMPUTER DESIGN PROCEDURES - INTRODUCTION FOR ACCEPTANCE IN THE REGULATORY PROCESS	
PROCEEDINGS OF THE WATER SUPPLY AND DRAINAGE SEMINAR.....	3109
COMPUTER INTEGRATED CONSTRUCTION	
IABSE PROCEEDINGS, INTERNATIONAL ASSOCIATION FOR BRIDGE AND STRUCTURAL ENGINEERING P-123/88, PP 17-25.....	4364
COMPUTER SIMULATED HYDRATION OF A CEMENT MODEL	
CIB.86 PROCEEDINGS VOL. 6, PP. 2086-2095.....	3137
COMPUTER SIMULATION OF PARTICLE SIZE DISTRIBUTION EFFECTS ON CEMENT MICROSTRUCTURE	
AMERICAN CONCRETE INSTITUTE SYMPOSIUM PROCEEDINGS.....	4695
CONCEPTUAL STRUCTURES FOR MODELING BUILDING INFORMATION	
PROCEEDINGS OF SYMPOSIUM ON KNOWLEDGE-BASED DESIGN IN ARCHITECTURE, HELSINKI, FINLAND 8/15-16/88.....	4416
CONSIDERATIONS FOR ADVANCED BUILDING THERMAL SIMULATION PROGRAMS	
PROCEEDINGS - BUILDING SIMULATION '89 (IBPSA).....	4556
CONSTRUCTION LOADS AND LOAD EFFECTS IN CONCRETE BUILDING CONSTRUCTION	
CONCRETE INTERNATIONAL VOL. 7, NO. 4.....	4362
CONSTRUCTION MATERIALS REFERENCE LABORATORIES AT NIST	
ASTM STANDARDIZATION NEWS PP. 40-44.....	4204
CONSTRUCTION MATERIALS REFERENCE LABORATORY AT NIST PROMOTING QUALITY IN LABORATORY TESTING	
ASTM STANDARDIZATION NEWS.....	4696
CONTINUOUS VERSUS CYCLIC WET-DRY EXPOSURE RESULTS FOR SCRIBED STEEL COATED PANELS	
JOURNAL COATINGS TECHNOLOGY VOL. 61 (772), PP. 39.....	4534
CONTROL OF INDOOR AIR QUALITY BY MEANS OF HVAC SYSTEMS	
IAQ '86, MANAGING INDOOR AIR FOR HEALTH AND ENERGY CONSERVATION ASHRAE SPECIAL PUBLICATION.....	3042
CONTROL SYSTEM SIMULATION IN NORTH AMERICA	
ENERGY AND BUILDINGS VOL. 10, PP. 193-202.....	4191

CONTROLLING AIR QUALITY IN OFFICE BUILDINGS	
ARCHITECTURAL TECHNOLOGY.....	3041
CONVECTION BETWEEN ZONES WITH NON-LINEAR TEMPERATURE DISTRIBUTIONS	
PROCEEDINGS OF THE AIR MOVEMENT AND DISTRIBUTION CONFERENCE.....	3123
CORROSION INDUCED DEGRADATION OF ANINE CURED EPOXY COATINGS ON STEEL	
PROCEEDINGS POLYMERIC MATERIALS SCIENCE AND ENGINEERING	
VOL. 56, PP. 584.....	4090
CORROSION-INDUCED DEGRADATION OF AMINE-CURED EPOXY COATINGS ON COLD-ROLLED	
STEEL	
AMERICAN CHEMICAL SOCIETY SYMPOSIUM SERIES.....	4229
D-B REPORTS ON SINGLE-PLY ROOFING ACTIVITIES	
ASTM STANDARDIZATION NEWS VOL. 15, NO. 2.....	4056
DEGRADATION OF EPOXIDE COATINGS ON STEEL UNDER MILD CORROSIVE	
ENVIRONMENTS	
FATIPEC CONGRESS VOL. 3, PP. 331.....	4087
DEGRADATION OF ORGANIC PROTECTIVE COATINGS IN CORROSIVE ENVIRONMENT	
PROCEEDINGS RILEM CONGRESS.....	4091
DEGRADATION OF ORGANIC PROTECTIVE COATINGS ON STEEL	
POLYMERIC MATERIALS FOR CORROSION CONTROL,	
ACS SERIES 322 VOL. 322, PP. 101.....	4086
DESIGN CRITERIA FOR GLASS CLADDING SUBJECTED TO WIND LOADS	
JOURNAL OF STRUCTURAL ENGINEERING.....	4185
DESIGN FOR PRODUCTIVITY - END USER INVOLVEMENT	
THE IMPACT OF THE WORK ENVIRONMENT ON PRODUCTIVITY.....	4076
DESIGN OF FULLY REDUNDANT AUTONOMOUS LIFE SUPPORT SYSTEMS	
PROCEEDINGS, 1986 AAUS DIVING FOR SCIENCE '86 SYMPOSIUM	
AMERICAN ACADEMY OF UNDERWATER SCIENCES.....	4200
DESIGN OF OFFICE MUST ENTER INTO AUTOMATION PLANNING	
GOVERNMENT COMPUTER NEWS.....	4079
DESIGN QUALITY THROUGH USE OF COMPUTERS	
QUALITY IN THE CONSTRUCTED PROJECT MANUAL OF PROFESSIONAL PRACTICE	
VOL. 1, CH. 11, PP. 66-72.....	4494
DETECTING DELAMINATIONS IN CONCRETE SLABS WITH AND WITHOUT OVERLAYS	
USING THE IMPACT-ECHO METHOD	
MATERIALS JOURNAL OF THE AMERICAN CONCRETE INSTITUTE	
VOL. 86, NO. 2.....	4324
DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING AND CORROSION	
OF COATINGS ON STEEL USING INFRA-RED THERMOGRAPHY	
JOURNAL COATINGS TECHNOLOGY VOL. 61, NO. 775, PP. 57.....	4845
DEVELOPMENT AND ENFORCEMENT OF U.S. BUILDING REGULATIONS	
DIRECTORY OF BUILDING CODES AND REGULATIONS	
VOLUME 1, CHAPTER 7.....	4721
DIAGNOSTIC TECHNIQUES FOR EVALUATING OFFICE BUILDING ENVELOPES	
ASHRAE TRANSACTIONS VOL. 94, PART 1.....	4240

DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES	
PROCEEDINGS, FIRST NATIONAL STRUCTURAL ENGINEERING CONFERENCE	
PP. 341-344.....	4529
DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES	
PROCEEDINGS NATIONAL CONFERENCE OF THE STRUCTURAL ENGINEERS ASSOCIATION OF AUSTRALIA.....	4187
DIURNAL EFFECTIVENESS OF PHASE CHANGE ENERGY STORAGE CYLINDERS	
PROCEEDINGS OF THE ASME SOLAR ENERGY DIVISION CONFERENCE.....	4113
DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES	
CEMENTS RESEARCH PROGRESS 1987.....	4471
DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES	
CEMENT RESEARCH PROGRESS 1986 PP. 297-350.....	4289
DYNAMIC CHARACTERIZATION OF STRUCTURES BY PULSE PROBING AND DECONVOLUTION	
PROCEEDINGS, 29TH STRUCTURES, STRUCTURAL DYNAMICS, AND MATERIALS CONFERENCE, AIAA AFOSR-ISSA-87-0063.....	4328
DYNAMIC CHARACTERIZATION OF STRUCTURES BY PULSE PROBING AND DECONVOLUTION - PAPER 88-2230	
PROCEEDINGS, 29TH AIAA STRUCTURES, STRUCTURAL DYNAMICS AND MATERIALS CONFERENCE PP. 147-157.....	4531
DYNAMIC SIMULATION OF WHOLE BUILDING SYSTEM	
PROCEEDINGS OF THE CIB 1986 CONFERENCE.....	3114
EARTHQUAKE DAMAGE IN MEXICO CAUSED BY THE SEPTEMBER 1985 EARTHQUAKE	
PROCEEDINGS 1986 UJNR.....	4198
EFFECT OF APPLICATION VARIABLES ON BOND STRENGTH OF EPDM'S	
1988 HANDBOOK OF COMMERCIAL ROOFING SYSTEMS.....	4526
EFFECT OF CONTAMINATION LEVEL ON CURE STRENGTH BUTYL ADHERED EPDM T-PEEL JOINTS	
PROCEEDINGS OF THE 9TH CONFERENCE ON ROOFING TECHNOLOGY, PP. 64..	4559
EFFECT OF VEILING REFLECTIONS ON VISION OF COLORED OBJECTS	
JOURNAL OF ILLUMINATING ENGINEERING SOCIETY.....	4396
EFFECTS OF RESEARCH ON BUILDING PRACTICE	
CONSTRUCTION SPECIFIER VOL. 42, NO. 5, PP. 98-105.....	4724
ENERGY ANALYSIS OF HEAT PUMPS	
ASHRAE TRANSACTIONS PART 2, PP. 1781-1797.....	4438
ENERGY RATING OF REFRIGERATORS WITH VARIABLE DEFROST CONTROLS	
ASHRAE TRANSACTIONS VOL. 94, PART 1, NO. 3133.....	4263
ENERGY TRANSFER MECHANISM IN SPT	
ASCE JOURNAL OF GEOTECHNICAL ENGINEERING	
VOLUME 13; NUMBER 9 - PP. 1331-1336.....	4651
ENVIRONMENTAL LOAD DIRECTION AND RELIABILITY BOUNDS	3068
JOURNAL OF STRUCTURAL ENGINEERING VOL. 112, NO. 5.....	3068
EPOXY IMPREGNATION OF HARDENED CEMENT FOR MICROSTRUCTURAL CHARACTERIZATION	
JOURNAL OF MATERIALS SCIENCE LETTER.....	4492

ERGONOMICS IN THE AUTOMATED OFFICE	
THE CHANGING OFFICE WORKPLACE.....	4077
ESTIMATING 3-D HEAT LOSS FROM RECTANGULAR BASEMENTS AND SLABS	
USING 2-D CALCULATIONS 4149	
ASHRAE TRANSACTIONS VOL. 93, PART 1.....	4149
ESTIMATING INTERROOM CONTAMINANT MOVEMENT	
THE FIFTH INTERNATIONAL SYMPOSIUM ON THE USE OF COMPUTERS FOR	
ENVIRONMENTAL ENGINEERING RELATED TO BUILDINGS.....	4431
ESTIMATION OF DYNAMIC GREEN'S FUNCTIONS FOR LARGE SPACE STRUCTURES BY	
PULSE PROBING AND DECONVOLUTION	
PROCEEDINGS, INTERNATIONAL CONFERENCE ON COMPUTATIONAL ENGINEERING	
SCIENCE, APRIL 10-14 VOL. 2, SECT. 44-VII, PP. 1-4.....	4530
EVALUATION OF AERODYNAMIC DRAG AND TORQUE FOR EXTERNAL TANKS IN	
LOW EARTH ORBIT	
PROCEEDINGS OF 9TH CONFERENCE ON SPACE MANUFACTURING	
MAY 10-12, 1989.....	4597
EVALUATION OF FUMED-SILICA INSULATION FOR A THERMAL CONDUCTIVITY	
STANDARD REFERENCE MATERIAL	
INSULATION MATERIALS TESTING AND APPLICATIONS ASTM STP.....	4468
EVALUATION OF TEST METHODS FOR MEASURING THE BOND STRENGTH OF	
PORTLAND CEMENT BASED REPAIR MATERIALS TO CONCRETE	
CEMENT, CONCRETE, AND AGGREGATES VOL. 11, NO. 1.....	4677
EVALUATION OF THE VARIATION IN THERMAL PERFORMANCE IN A	
NA2SO4.10H2O PHASE CHANGE SYSTEM	
JOURNAL OF SOLAR ENERGY MATERIALS PP. 453-461.....	118
EXPERIMENTAL AND ANALYTICAL INVESTIGATIONS ON PUNCHING SHEAR OF	
THICK, LIGHTWEIGHT CONCRETE PLATES AND SHELLS	
PH.D. THESIS.....	4601
EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT FLUX	
DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE	
PROCEEDINGS OF THE ASME-JSME-JSES SOLAR ENERGY CONFERENCE.....	4075
EXPERIMENTAL EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD	
AIR CONDITIONER	
PROCEEDINGS OF THE DOE/ORNL HEAT PUMP CONFERENCE.....	4397
EXPERIMENTAL GLASS FAILURE DATA & EQUIVALENT ONE-MIN. LOADS	
JOURNAL OF STRUCTURAL ENGINEERING.....	4272
EXPERIMENTAL MEASUREMENTS OF CONDENSATION ON VERTICAL PLATES WITH	
ENHANCED FINS	
BOILING AND CONDENSATION IN HEAT TRANSFER EQUIPMENT, PP 87-95....	4403
EXPERIMENTAL STUDY OF GUSSETED CONNECTIONS	
PROCEEDINGS OF 1989 NATIONAL STEEL CONSTRUCTION CONFERENCE.....	4595
EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR PREDICTING	
MOISTURE TRANSFER IN ATTICS	
PROCEEDINGS OF THE 1985 MOISTURE AND HUMIDITY SYMPOSIUM.....	2902
EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR PREDICTING WATER	
VAPOR SORPTION AT INTERIOR BUILDING Surfaces	
ASHRAE TRANSACTIONS VOL. 95, PART II.....	4587

EXPERT SYSTEM FOR CONCRETE CONSTRUCTION	
CONCRETE INTERNATIONAL VOL. 10, NO. 11, PP. 19-24.....	4316
EXPERT SYSTEM FOR SELECTING CONCRETE CONSTITUENTS	
STATE-OF-THE-ART COMPUTER APPLICATIONS SP 98, PP. 1-24.....	4224
FACTORS RELATED TO THE PERFORMANCE OF CONCRETE REPAIR MATERIALS	
US ARMY TECHNICAL REPORT REMR CS-12.....	4259
FIELD EVALUATION OF THE QUALITY OF NEWLY FORMED ADHESIVE- BONDED SEAMS OF SINGLE-PLY MEMBRANES	
THIRD INTERNATIONAL CONFERENCE ON ROOFS AND ROOFING PROCEEDINGS PP. 273-288.....	4243
FIELD MEASUREMENT OF THERMAL AND SOLAR/OPTICAL PROPERTIES OF INSULATING GLASS WINDOWS	
ASHRAE TRANSACTION VOL. 93, PT. 1.....	4156
FIELD MEASUREMENTS OF HEAT FLOW THROUGH WINDOWS	
PROCEEDINGS OF ICBEM CONFERENCE.....	4214
FINITE ELEMENT ANALYSIS OF THE PULLOUT TEST USING A NONLINEAR DISCRETE CRACKING APPROACH	
ASTM JOURNAL OF CEMENT, CONCRETE AND AGGREGATES VOL. 8, NO. 2...	4194
FINITE ELEMENT STUDIES OF TRANSIENT WAVE PROPAGATION	
REVIEW IN PROGRESS IN QUANTITATIVE NONDESTRUCTIVE EVALUATION VOL. 6A, PP. 125-134.....	4351
FLAW DETECTION IN CONCRETE AND HETEROGENOUS MATERIALS USING TRANSIENT STRESS WAVES	
JOURNAL OF ACOUSTIC EMISSION VOL. 5, NO.3, PP. 524-527.....	4352
FLAW DETECTION IN CONCRETE BY FREQUENCY SPECTRUM ANALYSIS OF IMPACT-ECHO WAVEFORMS	
INTERNATIONAL ADVANCES IN NONDESTRUCTIVE TESTING VOL. 12.....	3070
FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES	
PH.D. THESIS.....	4378
FLOW COEFFICIENTS FOR INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES	
1987 ASME SOLAR ENERGY DIVISION CONFERENCE.....	4125
FORMING ECONOMICAL CONCRETE BUILDINGS PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE	
AMERICAN CONCRETE INSTITUTE SP-90-1.....	4330
FRACTAL-BASED DESCRIPTION OF THE ROUGHNESS OF BLASTED STEEL PANELS	
JOURNAL COATING TECHNOLOGY.....	2989
FTIR SPECTROSCOPIC STUDIES OF THE DEGRADATION OF ONE- COMPONENT POLYURETHANE PROTECTIVE COATINGS ON STEEL	
PROCEEDINGS OF THE XIX FATIPEC CONGRESS.....	4509
FURTHER INVESTIGATION OF THE EFFECT OF APPLICATION PARAMETERS ON ADHESIVE BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES	
MATERIALS AND STRUCTURES VOL. 21, PP. 243-249.....	4520
GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS	
JOURNAL OF THE IES 18 (1): PP 49-62.....	4617
HEATS OF DEHYDRATION AND SPECIFIC HEATS OF COMPOUNDS FOUND IN CONCRETE AND THEIR POTENTIAL FOR ENERGY STORAGE	
SOLAR ENERGY MATERIALS 14, PP. 1-12.....	2985

HELICAL PROBE TESTS: INITIAL TEST CALIBRATION ASTM GEOTECHNICAL TESTING JOURNAL VOLUME 11, NUMBER 3; PP 179-186.....	4517
HEURISTIC ANALYSIS OF VON KRIES COLOR CONSTANCY JOURNAL OF THE OPTICAL SOCIETY OF AMERICA.....	3022
HORIZONTAL FLOW BOILING HEAT TRANSFER EXPERIMENTS WITH A MIXTURE OF R22/R114 INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER VOL. 32, NO. 1, PP. 131-145.....	4253
HORIZONTAL FLOW BOILING HEAT TRANSFER USING REFRIGERANTS MIXTURES INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER VOL. 32, NO. 1, PP. 131-145.....	4483
HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER VOL. 30, NO. 5, PP. 979-992.....	4407
HURRICANE CLIMATOLOGY NSF/WERC SYMPOSIUM ON HIGH WINDS AND BUILDING CODES, KANSAS CITY, MISSOURI, 11 2-4, 1987.....	4533
HYDRODYNAMIC FORCES ON VERTICAL CYLINDERS AND THE LIGHTHILL CORRECTION OCEAN ENGINEERING [UK] Vol. 16, No. 4, 1989.....	4578
IDENTIFICATION OF DYNAMIC GREEN'S FUNCTIONS IN STRUCTURAL NETWORKS AIAA JOURNAL VOL. 27, NO. 4; PP. 492-499.....	4655
IDENTIFICATION OF DYNAMIC GREEN'S FUNCTIONS IN STRUCTURAL NETWORKS AIAA JOURNAL.....	4532
IMAGING AND ASSESSMENT OF CORROSION ON COATED AND UNCOATED STEEL PROCEEDINGS RILEM CONGRESS VOL. 2, PP. 651.....	4089
IMPACT-ECHO METHOD: DETECTING HONEYCOMBING, THE DEPTH OF SURFACE-OPENING CRACKS, AND UNGROUTED DUCTS CONCRETE INTERNATIONAL ACI-VOL. 10, NO. 4, PP. 38-46.....	4343
IMPLICATIONS OF COMPUTER-BASED SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR ADVANCING CEMENT RESEARCH CERAMIC BULLETIN VOL. 67, NO. 8, PP. 1368-1371.....	4507
IMPLICATIONS OF COMPUTER-BASED SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR CEMENT RESEARCH PROCEEDINGS, 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENTS VOL. 6 PP. 598-602.....	3011
IMPULSE RESPONSE FUNCTIONS FOR ELASTIC STRUCTURAL NETWORKS WITH RIGID BODY DEGREES OF FREEDOM JOURNAL OF SOUND AND VIBRATION: VOL. 134, NO. 2, OCTOBER 22, 1989.	4640
IN SITU MEASUREMENTS OF CHLORIDE ION AT THE COATING/METAL INTERFACE PROCEEDINGS OF THE AMERICAN SOCIETY MEETING, PMSE DIVISION VOL. 61, PP. 733.....	4627
IN SITU MEASUREMENTS OF MOLECULAR BEHAVIOR AT THE STEEL/ OPAQUE COATINGS INTERFACE USING FTIR MULTIPLE REFLECTION (ETC.) PROCEEDINGS OF ELECTROCHEMICAL SOCIETY SYMPOSIUM VOL. 89 (1), PP. 793.....	4680

INELASTIC BEHAVIOR OF 1/6 SCALE MODEL BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING	
PROCEEDINGS OF THE THIRD U.S.-JAPAN BRIDGE WORKSHOP.....	4357
INFLUENCE OF CEMENT ALKALI DISTRIBUTION ON EXPANSION DUE TO ALKALI-SILICA REACTION	
ALKALIES IN CONCRETE, ASTM STP 930, PP. 31-45.....	2987
INFLUENCE OF CEMENT PORE SOLUTION ON EXPANSION	
PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON ALKALI-AGGREGATE REACTION (TOKYO).....	4605
INFORMATION MANAGEMENT FOR THE TENTH TRIENNIAL CIB CONGRESS	
CIB.86 PROCEEDINGS VOLUME 2, PP. 592-599.....	4099
INSTRUMENTATION OF THE SHENYANG T.V. TOWER	
PROCEEDINGS OF ASCE SEVENTH STRUCTURES CONGRESS.....	4577
INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE AND OTHER MATERIALS	
COMMUNICATIONS ON THE MATERIALS SCIENCE AND ENGINEERING STUDY PP. 57-60.....	4209
INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE SCIENCE AND TECHNOLOGY	
MATERIALS SCIENCE OF CONCRETE VOL. 1, PP. 315-332.....	4315
INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY	
INTERNATIONAL JOURNAL OF ROOFING TECHNOLOGY VOL. 1, PP. 32-34...	4688
INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY	
PROCEEDINGS OF SYMPOSIUM ON MATHEMATICAL MODELING OF LOW SLOPE ROOF SYSTEMS.....	4687
INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS	
PROCEEDINGS OF THE 3RD ANNUAL USERS PRL CONFERENCE PP. 43-71....	4692
INTER-ROOM AIR FLOW BY NATURAL CONVECTION VIA A DOORWAY OPENING	
PROCEEDINGS OF THE 1986 ASME SOLAR ENERGY DIVISION CONFERENCE....	2929
INTERIM CRITERIA FOR MODIFIED BITUMEN	
ROOFING/SIDING/INSULATION (RSI) JOURNAL VOL. 66, NO. 7, PP. 42..	4669
INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS: A SUMMARY REPORT	
INTERNATIONAL JOURNAL OF ROOFING TECHNOLOGY VOL. 1, PP. 19-24...	4621
INTERPRETATION OF THE EFFECTS OF RETARDING ADMIXTURES ON PASTES OF C3A PLUS GYPSUM, AND PORTLAND CEMENT	
PROCEEDINGS OF THE 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT VOL. 3; PP. 239-243.....	4001
INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURE CONFIGURATIONS	
PROCEEDINGS OF THE ASME WINTER ANNUAL MEETING 86-WA/SOL-1.....	3119
INTRODUCTION TO ACI 306.1-87: SPECIFICATION FOR COLD WEATHER CONCRETING	
CONCRETE INTERNATIONAL VOL. 10, NO. 10, OCT.1988, PP. 50-57.....	4415
INVESTIGATION OF A WASHINGTON DC OFFICE BUILDING	
PROCEEDINGS OF ASTM SYMPOSIUM ON DESIGN AND PROTOCOL FOR MONITORING INDOOR AIR QUALITY.....	4232
INVESTIGATION OF INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES	
PROCEEDINGS OF 9TH BRAZILIAN CONGRESS ON MECHANICAL ENGINEERING..	4211

INVESTIGATION OF THE COLLAPSE OF L'AMBIANCE PLAZA JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES ASCE.....	4341
INVESTIGATION OF THE COLLAPSE OF L'AMBIANCE PLAZA AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE.....	4323
KNOWLEDGE BASED SYSTEM FOR DURABLE REINFORCED CONCRETE CORROSION 86 PP. 60.....	4067
KNOWLEDGE-BASED FRONT-END INPUT GENERATING PROGRAM FOR BUILDING SYSTEM SIMULATION ASHRAE TRANSACTIONS VOL. 94, PART 1.....	4440
LABORATORY AND FIELD STUDIES OF THE IMPACT-ECHO METHOD FOR FLAW DETECTION IN CONCRETE NONDESTRUCTIVE TESTING ACI SP-112, PP. 1-20.....	4360
LARGE SCALE BRIDGE COLUMN TESTS: A PROGRESS REPORT PROCEEDINGS 1986 UJNR.....	4197
LIGHTING FOR COLOR VISION PROCEEDINGS OF SPIE 1987 CAMBRIDGE SYMPOSIUM ON ADVANCES IN INTELLIGENT ROBOTICS SYSTEMS.....	4266
LIGHTING QUALITY AND LIGHT SOURCE SIZE LIGHTING DESIGN AND APPLICATION.....	4565
LIMIT STATE PROBABILITIES FOR WOOD STRUCTURAL MEMBERS JOURNAL OF STRUCTURAL ENGINEERING VOL. 112, NO. 12.....	3083
LOADS - CHAPTER 2, BUILDING STRUCTURAL DESIGN HANDBOOK JOHN WILEY & SONS.....	4355
MACHINE REPRESENTATION OF STANDARDS STANDARDIZATION NEWS.....	3020
MEASUREMENT OF AIR VELOCITY COMPONENT OF NATURAL CONVECTIVE INTERZONAL AIR-FLOW ASME JOURNAL OF SOLAR ENERGY ENGINEERING VOL. 109 P. 267.....	4250
MEASUREMENT OF BUOYANCY - INDUCED FLOW USING A SELF-HEATED THERMISTOR FLOWMETER ASME JOURNAL OF SOLAR ENERGY ENGINEERING VOL. 109, PP. 34-39, 2/87.....	4097
MEASUREMENT OF INTERZONAL HEAT AND MASS TRANSFER BY NATURAL CONVECTION SOLAR ENERGY VOL. 38, NO. 6, P. 437.....	4106
MEASUREMENT OF THERMAL CHARACTERISTICS OF TWO OFFICE BUILDINGS PROCEEDINGS OF THE ASHRAE/DOE/BTECC CONFERENCE ON THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS, III P. 272... 3029	3029
MEASUREMENT TECHNIQUES FOR HORIZONTAL FLOW BOILING HEAT TRANSFER WITH PURE AND MIXED REFRIGERANTS EXPERIMENTAL HEAT TRANSFER.....	4444
MEASURING AIRFLOW RATES WITH PULSE TRACER TECHNIQUES ASTM SYMPOSIUM, AIR CHANGE RATE AND AIR TIGHTNESS IN BUILDINGS... 4486	4486
MECHANICAL AND PHYSICAL PROPERTIES OF COQUINA STONE FROM CASTILLO DE SAN MARCOS NATIONAL MONUMENT PROCEEDINGS OF EIGHTH ICOMOS.....	4258

METHODS FOR COMPARING THE PERFORMANCE OF PURE AND MIXED REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE	
INTERNATIONAL JOURNAL OF REFRIGERATION VOL. 10 PP. 319-325.....	4210
MICROSTRUCTURAL ANALYSIS OF HARDENED ALITE PASTE. PART II, MICROSCOPY AND REACTION PRODUCTS	
JOURNAL OF MATERIALS SCIENCE VOL. 21, PP. 4053-4059.....	4017
MICROSTRUCTURAL ANALYSIS OF HARDENED ALITE PASTE: PART I POROSITY	
JOURNAL OF MATERIALS SCIENCE VOL. 21, PP. 4048-4052.....	4018
MICROSTRUCTURAL ASPECTS OF THE FRACTURE OF HYDRATED CEMENT	
JOURNAL OF THE AMERICAN CERAMIC SOCIETY.....	4548
MICROSTRUCTURE AND FRACTURE AT THE CEMENT PASTE-AGGREGATE INTERFACE	
MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS VOL. 114.....	4333
MINIMUM SHEAR REINFORCEMENT IN BEAMS WITH HIGHER STRENGTH CONCRETE	
ACI STRUCTURAL JOURNAL VOL. 86, NO. 4; PP. 376-382.....	4652
MODELLING REFRIGERANT MIXTURES WITH HARD-SPHERE EQUATIONS OF STATE	
AICHE JOURNAL.....	4387
MULTI-ZONE DISPERSAL ANALYSIS BY ELEMENT ASSEMBLY	
BUILDING AND ENVIRONMENT JOURNAL.....	4386
NON-DESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF SINGLE- PLY ROOFING MEMBRANES	
INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING	
SPIE, VOL. 780, PP. 2-10.....	4527
NONDESTRUCTIVE ASSESSMENT OF CONCRETE STRUCTURES USING THE IMPACT-ECHO METHOD	
PROCEEDING OF THE INTER. SYMPOSIUM TECHNICAL UNIVERSITY OF DENMARK, COPENHAGEN RE-EVALUATION OF CONCRETE STRUCTURE.....	4375
NONDESTRUCTIVE METHODS FOR INSPECTING SINGLE PLY ROOFING SEAMS	
THE CONSTRUCTION SPECIFIER.....	4666
OIL STORAGE TANK COLLAPSE AT ASHLAND FLOREFFE TERMINAL	
MATERIALS EVALUATION PP. 587-589.....	4366
ON ESTABLISHING FUNCTIONAL RELATIONSHIPS BETWEEN REACTION MECHANISMS AND ENGINEERING PROPERTIES OF CEMENT-BASED SYSTEMS	
RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS PP. 87-93.....	4042
ON REACTION BETWEEN SILICON AND NITROGEN PART II MICROSTRUCTURE	
JOURNAL OF MATERIALS SCIENCE.....	4205
PART LOAD SEASONAL EFFICIENCY TEST PROCEDURE EVALUATION OF FURNACE CYCLE CONTROLLERS	
ASHRAE TRANSACTIONS.....	3120
PERFORMANCE MEASUREMENTS OF INFRARED IMAGING SYSTEMS USED TO ASSESS THERMAL ANOMALIES	
PROCEEDINGS OF THERMAL IMAGING CONFERENCE.....	3035
PERFORMANCE TEST FOR GRAFFITI REMOVERS	
CLEANING STONE AND MASONRY STP. 935, PP. 14-24.....	4066
PERIODIC HEAT CONDUCTION IN ENERGY STORAGE CYLINDERS WITH CHANGE OF PHASE	
PROCEEDINGS AIAA/ASME HEAT TRANSFER CONFERENCE.....	2943

PERIODIC, QUASIPERIODIC, AND CHAOTIC MOTIONS OF FORCED AND AUTONOMOUS GALLOPING OSCILLATORS
8TH COLLOQUIUM ON INDUSTRIAL AERODYNAMICS, AACHEN, SEPT. 4-7, 1989 (PREPRINT)..... 4637

PERMEABILITY, DIFFUSIVITY, AND MICROSTRUCTURAL PARAMETERS: A CRITICAL REVIEW
CEMENT AND CONCRETE RESEARCH VOL. 20, NO. 4, PP.591-601..... 4701

PORE WATER PRESSURE BUILDING IN CLEAN SANDS BECAUSE OF CYCLIC STRAINING
ASTM GEOTECHNICAL TESTING JOURNAL VOL. 12, NO.1..... 4641

PORTLAND CEMENTS, BLENDED CEMENTS AND MORTARS
CONCISE ENCYCLOPEDIA OF MINERAL RESOURCES PP. 278 - 285..... 4703

POST: PLANT OPERATIONS SIMULATION TEMPLATE
ASHRAE TRANSACTIONS VOL. 94, PART 1..... 4166

POZZOLAN PROGRAMS OF THE CEMENT AND CONCRETE REFERENCE LABORATORY
PROCEEDINGS OF THE EIGHTH INTERNATIONAL ASH UTILIZATION SYMPOSIUM CS-5362..... 4227

PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS
MATERIALS AND STRUCTURES VOL. 20, NO. 115..... 4846

PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS
MATERIALS AND STRUCTURES VOL. 19, NO. 114..... 3012

PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS
CIB REPORT 96..... 4061

PREDICTION OF SERVICE LIFE OF CONSTRUCTION AND OTHER MATERIALS
COMMUNICATIONS ON THE MATERIALS SCIENCE AND ENGINEERING STUDY
PP. 61-74..... 4173

PRELIMINARY DYNAMIC ANALYSES OF THE MINISTRY OF AGRICULTURE BUILDING
PROCEEDINGS, INTERNATIONAL CONFERENCE ON MEXICO EARTHQUAKES:
FACTORS INVOLVED AND LESSONS LEARNED..... 4195

PROBABILITY BASED LOAD COMBINATION CRITERIA FOR DESIGN OF SHEAR WALL
STRUCTURES
U.S. NRC RESEARCH REPORT NUREG/CR-4238..... 3069

PROCESS FOR CREATING A NATIONAL BUILDING RESEARCH AGENDA
NRC; NAS AND ENGINEERING..... 4497

PRODUCT MODELLING FOR BUILDINGS FOR DATA EXCHANGE STANDARDS:
FROM IGES TO PDES/STEP AND BEYOND
PROCEEDINGS OF THE JOINT CIB W74 AND CIB W78 SEMINAR ON CONCEPTUAL
MODELLING OF BUILDINGS 10/24-28/88..... 4538

PROGRESSIVE COLLAPSE: US OFFICE BUILDING IN MOSCOW
ASCE JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES
VOL. 3, NUMBER 1, PP. 57-75..... 4382

PROPOSED EXPERIMENTAL PROGRAM FOR LARGE-SCALE BRACED FRAME CONNECTIONS
PROCEEDINGS, AISC NATIONAL ENGINEERING CONFERENCE NASHVILLE 06/86. 3081

QUANTITATIVE CHARACTERIZATION OF THE MICROSTRUCTURE OF HARDENED TRICALCIUM
SILICATE PASTE USING COMPUTER IMAGE
RILEM 1987 INTERNATIONAL CONFERENCE FROM MATERIALS SCIENCE TO MATERIAL
ENGINEERING PP. 49-56..... 4046

QUANTITATIVE STUDIES OF COATINGS ON STEEL USING REFLECTION ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY PROCEEDINGS SYMPOSIUM POLYMERIC MATERIALS SCIENCE ENGINEERING VOL. 55, PP. 665.....	4515
RATING ELECTRIC HEAT PUMP PERFORMANCE PROCEEDINGS OF THE EPRI CONFERENCE ON MEETING THE CUSTOMER NEEDS WITH HEAT PUMPS.....	4073
RATING OF MIXED SPLIT RESIDENTIAL AIR CONDITIONERS FIFTH ANNUAL SYMPOSIUM ON IMPROVING BUILDING ENERGY EFFICIENCY IN HOT AND HUMID CLIMATES.....	4384
REFLECTION/ABSORPTION FTIR OF THE DEGRADATION OF PROTECTIVE COATINGS ON MILD STEEL ADVANCES IN ORGANIC COATINGS SCIENCE TECHNOLOGY SERIES VOL. 9, PP. 178.....	4674
REFLECTION/ABSORPTION FTIR SPECTRAL CHARACTERIZATION OF THICK AND THIN CROSSLINKED EPOXY FILMS ON STEEL SUBSTRATES PROCEEDINGS OF THE AMERICAN CHEMICAL SOCIETY MEETING VOL. 59, PP. 459.....	4508
REFLECTIONS ON THE PRESENTATIONS - TECHNOLOGY AND THE FUTURE OF THE US CONSTRUCTION INDUSTRY PROCEEDINGS OF THE PANEL ON TECHNICAL CHANGE AND THE US BUILDING CONSTRUCTION INDUSTRY PP. 150-153.....	4102
REFRIGERANT MIXTURES FOR HEAT PUMPS EPRI CONFERENCE ON MEETING THE CUSTOMER NEEDS WITH HEAT PUMPS....	4072
REINFORCEMENT BUCKLING IN REINFORCED CONCRETE FLEXURAL MEMBERS ACI JOURNAL VOL. 83; NO. 6; PP. 966-973.....	4371
RELIABILITY OF COMPLIANT DRILLING AND PRODUCTION PLATFORMS 1985 REPORT, TCH. ASSESSMENT & RES. PROGRAM FOR OFFSHORE MINERALS OPERATIONS.....	3079
RESEARCH AS THE TECHNICAL BASIS FOR STANDARDS USED IN BUILDING CODES PROCEEDINGS OF PACIFIC RIM CONFERENCE OF BUILDING OFFICIALS.....	4582
RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS.....	4172
RISKS OF BLISTERING OF BUILT-UP ROOFING MEMBRANES APPLIED TO POLYURETHANE FOAM INSULATION ASTM STP 922 - PROCEEDINGS OF CONFERENCE ON THERMAL INSULATION SYSTEMS AND MATERIALS STP 922.....	2808
ROOFER INTERVIEW 4057 ROOFER MAGAZINE VOL. 7, NO. 2.....	4057
ROUGHNESS MEASURES OF BLASTED STEEL SURFACES REMOTELY IMAGED WITH A THERMOGRAPHIC CAMERA PROCEEDINGS 1986 ELECTROCHEMICAL SOCIETY.....	4049
RULE BASED DIAGNOSTIC METHOD FOR HVAC FAULT DETECTION PROCEEDINGS OF THE INTERNATIONAL BUILDING PERFORMANCE SIMULATION ASSOCIATION CONFERENCE.....	4540
SAFETY COLOR APPEARANCE UNDER DIFFERENT ILLUMINANTS JOURNAL OF THE ILLUMINATION ENGINEERING SOCIETY.....	4154

SEASONAL PERFORMANCE EVALUATION PROCEDURES FOR DOMESTIC ELECTRIC DRIVEN HEAT PUMPS AND AIR CONDITIONERS	
PROCEEDINGS OF THE 1988 ANNUAL MEETING OF THE JAPANESE ASSOCIATION OF REFRIGERATION.....	4548
SEMANTIC MODELING FOR OBJECT-ORIENTED AND KNOWLEDGE-BASED INFORMATION SYSTEMS	
KNOWLEDGE-BASED SYSTEMS IN ARCHITECTURE.....	4421
SEMI-QUANTITATIVE CONDITION ASSESSMENT OF PAINTS AND SUBSTRATE SURFACES	
PROCEEDINGS OF SYMPOSIUM FOR LONG-TERM PROTECTION OF STEEL STRUCTURES PP. 1-15.....	3006
SERVICEABILITY LIMIT STATES: DEFLECTION	
JOURNAL OF STRUCTURAL ENGINEERING, ASCE VOL. 112, NO. 1, PP. 67-84.....	3064
SETTING TIME AND STRENGTH OF CONCRETE USING THE IMPACT-ECHO METHOD	
MATERIALS JOURNAL OF AMERICAN CONCRETE INSTITUTE VOL.85, NO. 5, OCT 1988, PP.389-399.....	4358
SIMULATION OF A LARGE OFFICE BUILDING SYSTEM USING THE HVACSIM+ PROGRAM	
ASHRAE TRANSACTIONS VOL. 95 PART 1.....	4296
SIMULATION OF MICROSTRUCTURE DEVELOPMENT DURING THE HYDRATION OF CEMENT COMPOUND	
JOURNAL OF THE AMERICAN CERAMIC SOCIETY VOL. 69, PP. 790-795....	4016
SIMULATION STUDIES OF PROTOTYPE AND 1/6-SCALE MODEL BRIDGE COLUMNS UNDER REVERSED CYCLIC LOADING	
PROCEEDINGS 4TH US-JAPAN WORKSHOP ON BRIDGE ENGINEERING MAY 11-12, 1988.....	4571
SIMULTANEOUS MEASUREMENTS OF INFILTRATION AND INTAKE IN AN OFFICE BUILDING	
ASHRAE TRANSACTIONS VOL. 93, PART 2.....	4213
SOFTWARE CONCEPT FOR CHECKING ENGINEERING DESIGNS FOR CONFORMANCE WITH CODES AND STANDARDS	
ENGINEERING WITH COMPUTERS VOL. 5, PP 63-78 (1989).....	4663
SOURCE STRENGTHS AND SOURCES OF VOLATILE ORGANIC COMPOUNDS IN A NEW OFFICE BUILDING	
APCA JOURNAL 89.....	4610
STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION STUDIES	
PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON ALKALI-AGGREGATE REACTION (TOKYO).....	4604
STANDARD CEMENT CLINKERS FOR PHASE ANALYSIS	
PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON CEMENT MICROSCOPY PP. 154-168.....	4589
STANDARD SPECIFICATION FOR CEMENTS AND THE ROLE IN THEIR DEVELOPMENT OF QUALITY ASSURANCE SYSTEMS FOR LABORATORIES	
PROCEEDINGS OF THE 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT VOL. VI, PP. 316-320.....	4671

STANDARDIZING ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS	
ASHRAE JOURNAL VOL. 31, NO. 1.....	4484
STANDARDS FOR BUILDING MATERIALS, EQUIPMENT, AND SYSTEMS	
AMERICAN JAILS VOL. II, NO. 1.....	4427
STANDARDS FOR SELECTING CORRECTIONAL FACILITY PRODUCTS AND SYSTEMS	
CORRECTIONS TODAY AMERICAN CORRECTIONAL ASSOC.....	4176
STATISTICAL CHARACTERISTICS OF NEW PIN PENETRATION TEST	
ASTM JOURNAL OF CEMENT, CONCRETE AND AGGREGATES	
VOL. 11, NO.2, PP. 85-91.....	4450
STATISTICAL METHODS FOR IN-PLACE STRENGTH PREDICTIONS BY THE PULLOUT TEST	
ACI JOURNAL VOL. 83, NO. 2.....	3139
STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: A NEW CONCEPT IN LOAD-ELONGATION TESTING	
8TH CONFERENCE ON ROOFING TECHNOLOGY PP. 40-49.....	4525
STRENGTH REDUCTION OF EPDM SINGLE-PLY SEAM JOINTS DUE TO SURFACE CONTAMINANTS	
JOURNAL MATERIALS IN CIVIL ENGINEERING VOL. 1, NO. 3.....	4560
STRUCTURE: US OFFICE BUILDING IN MOSCOW	
ASCE JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES	
VOL. 3, NUMBER 1, PP. 16-34.....	4380
SUMMARY OF CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES	
PROCEEDINGS OF THE 19TH INTERNATIONAL THERMAL CONDUCTIVITY CONFERENCE.....	3031
SYNTHESIS AND CHARACTERIZATION OF ETTRINGITE AND RELATED PHASES	
PROCEEDINGS, 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT	
VOL. VI, PP. 582-588.....	2986
TECHNIQUES FOR INVESTIGATING BUILDING INDOOR AIR QUALITY	
PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON HEAT AND MASS TRANSFER IN BUILDING MATERIALS.....	4614
TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION	
ASHRAE TRANSACTIONS VOL. 94, PART 2.....	4439
TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION	
PROCEEDINGS OF THE ASHRAE SYMPOSIUM ON 'WINDOW U-VALUE MEASUREMENTS'.....	4133
TERRESTRIAL TRENDS FOR BUILDING TECHNOLOGY IN NORTH AMERICA	
SPACE 88: ENGINEERING, CONSTRUCTION, AND OPERATIONS IN SPACE; CONFERENCE PROCEEDINGS PP. 27-34.....	4383
TEST OF ADHESIVE-BONDED SEAMS OF SINGLE-PLY RUBBER MEMBRANES	
ASTM SPECIAL TECHNICAL PUBLICATION ASTM STP 959, PP. 53-62.....	4524
TESTING CONFORMANCE TO ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS - PART 1: TEST ARCHITECTURE	
ASHRAE TRANSACTIONS VOL. 95 PART 2.....	4558
THE AIRTIGHTNESS OF OFFICE BUILDING ENVELOPES	
ASHRAE/DOE/BTECC CONFERENCE ON THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES P. 125.....	3023

THE COMING REDEFINITION OF PHOTOMETRY JOURNAL OF THE ILLUMINATING ENGINEERING SOCIETY VOL. 15, NO. 2, PP. 5-18 & 77.....	974
THE COUPLED AIRFLOW AND THERMAL ANALYSIS PROBLEM IN BUILDING AIRFLOW SYSTEM SIMULATION ASHRAE TRANSACTIONS VOL. 95, PART II.....	4644
THE DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA PROCEEDINGS INTERNATIONAL DAYLIGHTING CONFERENCE.....	4074
THE DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA PROCEEDINGS OF THE 2ND INTERNATIONAL DAYLIGHTING CONFERENCE.....	4238
THE DAYLIGHTING AND THERMAL PERFORMANCE OF ROOF GLAZING IN ATRIUM SPACES ASHRAE TRANSACTIONS VOL. 94, PART 1.....	4458
THE DESIGN PROCESS FOR INTELLIGENT BUILDINGS ERGODESIGN 86.....	4078
THE DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING AND CORROSION OF COATINGS ON STEEL INFRARED THERMOGRAPHY JOURNAL OF COATINGS TECHNOLOGY VOL. 61 (775), PP. 57-62.....	4544
THE DEVELOPMENT OF MODELS FOR PREDICTION OF INDOOR AIR QUALITY IN BUILDINGS PROCEEDINGS OF THE 8TH AIVC CONFERENCE.....	4297
THE EFFECT OF BUILDING ENVELOPES ON COOLING LOADS DUE TO LIGHTING CONFERENCE PAPER: THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS IV.....	4611
THE EFFECT OF INTERIOR MASS SURFACES ON THE SPACE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE PROCEEDINGS OF ASHRAE/DOE/BTECC CONFERENCE ON THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS III.....	3039
THE EFFECT OF SHORT CYCLING AND FAN DELAY ON THE EFFICIENCY OF A MODIFIED RESIDENTIAL HEAT PUMP ASHRAE TRANSACTIONS VOL. 92, PART 1.....	2912
THE EFFECT OF WALL MASS ON THE ANNUAL SPACE HEATING AND COOLING LOADS OF RESIDENCES PROCEEDINGS OF INTERNATIONAL CONGRESS ON BUILDING ENERGY MANAGEMENT.....	4218
THE HYDRATION OF TRICALCIUM ALUMINATE AND TETRACALCIUM ALUMINOFERRITE IN THE PRESENCE OF GYPSUM STRUCTURES AND MATERIALS.....	2993
THE IMPLICATIONS OF PHASE EQUILIBRIA ON HYDRATION IN THE TRICALCIUM SILICATE-WATER AND THE TRICALCIUM ALUMINATE-GYPSUM WATER SYSTEMS 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT.....	2994
THE INFLUENCE OF SELECTED RETARDERS ON THE HYDRATION OF A CEMENT COMPOUND. IMPLICATION ON THE SETTING TIME IN PORTLAND CEMENT CEMENT PRODUCTION AND USE.....	4020
THE INTERACTION OF BUILDING LIGHTING, HEATING AND COOLING SYSTEMS LIGHTING, DESIGN AND APPLICATIONS MAGAZINE.....	4586

THE MAINTENANCE AND IMPLEMENTATION OF AN EXPERT SYSTEM FOR DURABLE CONCRETE	
COMPUTER APPLICATIONS IN CONCRETE, SPECIAL PUBLICATION: ACI ANNUAL CONVENTION, SAN ANTONIO, TX SP 106-4, PP. 75-86.....	4098
THE MEASURED PERFORMANCE OF RESIDENTIAL WATER HEATERS USING EXISTING AND PROPOSED DEPARTMENT OF ENERGY TEST PROCEDURES	
ASHRAE TRANSACTIONS VOL. 95, PART II.....	4482
THE MEASUREMENT OF STRUCTURAL DEFLECTIONS	
ASCE STRUCTURES CONGRESS SPECIAL PUBLICATION.....	4574
THE NBS MULTI-ZONE IAQ MODEL	
PROCEEDINGS OF ANNUAL MEETING OF PNWIS APCA.....	4455
THE NBS SOLAR COLLECTOR RELIABILITY/DURABILITY TEST PROGRAM: SUMMARY OF RESULTS AND RECOMMENDATIONS FOR COLLECTOR TESTING	
JOURNAL OF SOLAR ENERGY ENGINEERING VOL. 108, NO. 1.....	2990
THE RELATION OF CO2 CONCENTRATION TO OFFICE BUILDING VENTILATION	
PROCEEDINGS OF ASTM SYMPOSIUM ON AIR CHANGE RATE AND AIR TIGHTNESS IN BUILDINGS.....	4543
THE USE OF NONDESTRUCTIVE METHODS FOR INSPECTION OF SINGLE-PLY ROOFING MEMBRANES	
DURABILITY OF BUILDING MATERIALS VOL. 3, PP. 343-352.....	4065
THE USE OF T-PEEL TESTS TO INVESTIGATE THE EFFECT OF APPLICATION PARAMETERS ON ADHESIVE-BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES	
DURABILITY OF BUILDING MATERIALS.....	4223
THERMAL CONDUCTIVITY OF FUMED SILICA BOARD AT ROOM TEMPERATURE	
21ST INTERNATIONAL THERMAL CONDUCTIVITY CONFERENCE.....	4585
THERMAL PERFORMANCE COMPARISONS FOR SOLAR HOT WATER SYSTEMS SUBJECTED TO VARIOUS COLLECTOR AND HEAT EXCHANGER FLOW RATES	
SOLAR ENERGY JOURNAL VOL. 40, NO. 1, PP 1-11, 1988.....	3112
THERMAL RESISTANCE MEASUREMENTS AND CALCULATIONS OF AN INSULATED CONCRETE BLOCK WALL	
ASHRAE TRANSACTIONS VOL. 95, PART 1, 1989.....	4390
THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED AND SUPER INSULATED RESIDENTIAL WALLS USING A CALIBRATED HOT BOX	
ASHRAE TRANSACTIONS VOL. 92, PART 2.....	3026
THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED WALL USING A CALIBRATED HOT BOX	
JOURNAL OF THERMAL INSULATION VOL. 10, PP. 54.....	4192
THERMAL WAVE MICROSCOPY	
CHEMTECH 16 (1986) 634.....	4083
THERMAL WAVE MICROSCOPY IN CORROSION STUDIES	
PROCEEDINGS METALLOGRAPHY AND CORROSION SYMPOSIUM.....	4511
THERMODYNAMIC EVALUATION OF REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE USING REDUCED PROPERTIES	
INTERNATIONAL JOURNAL OF REFRIGERATION VOL. II, PP. 134-143.....	4435
THERMODYNAMICS OF CALCIUM SILICATE HYDRATES AND THEIR SOLUTIONS	
JOURNAL OF THE AMERICAN CERAMIC SOCIETY.....	4222

THERMOPHYSICAL PROPERTY MEASUREMENT IN BUILDING INSULATION MATERIALS USING A SPHERICALLY-SHAPED, SELF-HEATED PROBE THERMAL CONDUCTIVITY 20.....	4542
THERMOPHYSICAL PROPERTY NEEDS FOR THE ENVIRONMENTALLY-ACCEPTABLE HALOCARBON REFRIGERANTS INTERNATIONAL JOURNAL OF THERMOPHYSICS.....	4536
TOWARD MODULAR SEMANTIC APPLICATION LAYER PROTOCOLS (MS-ALPS): COMMUNICATION BETWEEN HETEROGENEOUS INFORMATION SYSTEMS USING ARTIFICIAL INTELLIGENCE PROGRAM PROCEEDINGS OF THE DISTRIBUTED INFORMATION SYSTEMS: EMERGING USES AND TECHNOLOGY 25TH ANNUAL TECHNICAL SYMPOSIUM.....	3105
TRANSIENT IMPACT RESPONSE OF PLATES CONTAINING FLAWS JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO. 6, PP. 369-381.....	4346
TRANSIENT IMPACT RESPONSE OF THICK CIRCULAR PLATES JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO 6, PP. 355-367.....	4345
TRANSIENT MOISTURE AND HEAT TRANSFER IN MULTILAYER NONISOTHERMAL WALLS: COMPARISON OF PREDICTED AND MEASURED RESULTS 1989 ASHRAE/DOE/BTECC/CIBSE THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS IV CONFERENCE.....	4659
TRENDS FOR BUILDINGS TECHNOLOGY IN NORTH AMERICA PREPRINTS FIFTH CANADIAN BUILDING AND CONSTRUCTION CONGRESS PROCEEDINGS OF FIFTH CANADIAN BUILDING AND CONSTRUCTION CONGRESS PP. 303-306.....	4593
UNCERTAINTIES IN THE CROSS-SPECTRAL METHOD FOR ACOUSTIC INTENSITY UNDER SEMI-REVERBERANT CONDITIONS JOURNAL ACOUSTICAL SOCIETY OF AMERICA SOCIETY OF AMERICA VOL. 79, PP. 691-701.....	2704
UPDATE: ASTM STANDARDS FOR SINGLE-PLY MEMBRANES RSI VOL. 63, NO. 10.....	4055
USING THE COMPUTER TO ANALYZE COATING DEFECTS JOURNAL OF PROTECTIVE COATINGS AND LININGS VOL. 4, PP. 38-45....	4047
VALIDATION OF MODELS FOR PREDICTING FORMALDEHYDE CONCENTRATIONS IN RESIDENCES DUE TO PRESSED-WOOD PRODUCTS APCA JOURNAL VOL. 38, NO. 11, PP. 1403-1411.....	4620
VENTILATION EFFECTIVENESS MEASUREMENTS IN AN OFFICE BUILDING PROCEEDINGS OF THE ASHRAE IAQ '86 CONFERENCE P. 548.....	4155
VENTILATION RATES IN OFFICE BUILDINGS ASHRAE IAQ 89.....	4563
VERIFICATION OF EVAPORATOR COMPUTER MODELS AND ANALYSIS OF PERFORMANCE OF AN EVAPORATOR COIL ASHRAE TRANSACTIONS VOL. 95, PART 1.....	4479
VISUALIZATION OF NUCLEATE FLOW BOILING FOR A R22/R114 MIXTURE AND THEIR COMPONENTS EXPERIMENTAL HEAT TRANSFER JOURNAL.....	4551

WHAT COMES AFTER IGES	
PROCEEDINGS OF THE SPRING 1987 NATIONAL SOCIETY FOR COMPUTER	
APPLICATIONS IN ENGINEERING, PLANNING AND ARCHITECTURE, INC.....	4293
WIND EFFECTS ON STRUCTURES, SECOND EDITION	
JOHN WILEY & SONS.....	4188
WIND ENGINEERING-RECENT INVESTIGATION AND RESEARCH NEEDS	
PROCEEDINGS, U.S.-AUSTRIA JOINT SEMINAR ON STOCHASTIC STRUCTURAL	
DYNAMICS.....	4273
WIND TUNNEL TESTS AND EQUIVALENT 1-MIN LOADS FOR THE DESIGN OF	
CLADDING GLASS	
INTERNATIONAL JOURNAL OF ELSEVIER SCIENCE PUBLISHERS AMSTERDAM -	
WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS VOL. 29.....	4189
WINDOWS U-VALUES: RESEARCH NEEDS AND PLANS	
PROCEEDINGS OF THE CONFERENCE ON THERMAL PERFORMANCE OF THE	
EXTERIOR ENVELOPES OF BUILDING III.....	3036

TECHNICAL DISCIPLINE

STRUCTURES

GROSS, J.L., "FORMING ECONOMICAL CONCRETE BUILDINGS PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE", AMERICAN CONCRETE INSTITUTE SP-90-1, (00/86).....	4330
YOKEL, F.Y., MAYNE, P.W., "HELICAL PROBE TESTS FOR SHALLOW SOIL EXPLORATION", NBS INTERAGENCY REPORT 86-3351, (01/86).....	3080
SIMIU, E., SCANLAN, R.H., "WIND EFFECTS ON STRUCTURES, SECOND EDITION", WIND EFFECTS ON STRUCTURES SECOND EDITION, (01/86).....	4188
GALAMBOS, T.V., ELLINGWOOD, B.R., "SERVICEABILITY LIMIT STATES: DEFLECTION", JOURNAL OF STRUCTURAL ENGINEERING, ASCE VOL. 112, NO. 1, PP. 67-84, (01/86).....	3064
HWANG, NAKAI, REICH, ELLINGWOOD, B.R., SHINOZUKA, "PROBABILITY BASED LOAD COMBINATION CRITERIA FOR DESIGN OF SHEAR WALL STRUCTURES", U.S. NRC RESEARCH REPORT NUREG/CR-4238, (01/86).....	3069
STONE, W.C., "DESIGN OF FULLY REDUNDANT AUTONOMOUS LIFE SUPPORT SYSTEMS", PROCEEDINGS, 1986 AAUS DIVING FOR SCIENCE '86 SYMPOSIUM AMERICAN ACADEMY OF UNDERWATER SCIENCES, (02/86).....	4200
HENDRICKSON, E.M., SIMIU, E., "DIRECTIONAL HURRICANE WIND SPEEDS", NBS INTERAGENCY REPORT 86-3317, (02/86).....	3071
CARINO, N.J., SANSALONE, M., HSU, N.N., "A POINT SOURCE - POINT RECEIVER TECHNIQUE FOR FLAW DETECTION IN CONCRETE", JOURNAL OF THE AMERICAN CONCRETE INSTITUTE VOL. 83, NO. 2, PP. 199-208, (04/86).	4359
FATTAL, S.G., "TENSILE PROPERTIES OF PLEATED SYNTHETIC ROPE", NBS INTERAGENCY REPORT 86-3375, (04/86).....	3084
LEW, H.S., "CONSTRUCTION LOADS AND LOAD EFFECTS IN CONCRETE BUILDING CONSTRUCTION", CONCRETE INTERNATIONAL VOL. 7, NO. 4, (04/86).....	4362
RAUFASTE, N.J., "WIND AND SEISMIC EFFECTS - PROCEEDINGS OF THE 17TH JOINT PANEL MEETING", NBS INTERAGENCY REPORT 86-3364, (05/86)....	3082
SANSALONE, M., "FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES", PH.D. THESIS, (05/86).....	4378
YANCEY, C.W., CARINO, N.J., SANSALONE, M., "PERIMETER SAFETY NET PROJECTION REQUIREMENTS", NBS INTERAGENCY REPORT 85-3271, (05/86).....	3077
MCLEAN, D.M., LEW, H.S., PHAN, L.T., SANSALONE, M., "PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: LITERATURE REVIEW", NBS INTERAGENCY REPORT 86-3388, (05/86).....	4311
SIMIU, E., LEIGH, S.D., NOLAN, W.A., KANDASAMY, V., "ENVIRONMENTAL LOAD DIRECTION AND RELIABILITY BOUNDS", JOURNAL OF STRUCTURAL ENGINEERING VOL. 112, NO. 5, (05/86).....	3068
GROSS, J.L., "PROPOSED EXPERIMENTAL PROGRAM FOR LARGE-SCALE BRACED FRAME CONNECTIONS", PROCEEDINGS, AISC NATIONAL ENGINEERING CONFERENCE NASHVILLE, (06/86).....	3081

GROSS, J.L., LEW, H.S., "ANALYSIS OF SHORING LOADS AND SLAB CAPACITY FOR MULTISTORY CONCRETE CONSTRUCTION", NBS INTERAGENCY REPORT 86-3406, (06/86).....	2657
PHAN, L.T., LEW, H.S., MCLEAN, D.I., "PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE STRUCTURES FOR THE ARCTIC: PLANNING OF EXPERIMENTAL STUDY", NBS INTERAGENCY REPORT 86-3440, (07/86).....	4275
SANSALONE, M., CARINO, N.J., HSU, N.N., "FLAW DETECTION IN CONCRETE AND HETEROGENOUS MATERIALS USING TRANSIENT STRESS WAVES", JOURNAL OF ACOUSTIC EMISSION VOL. 5, NO.3, PP. 524-527, (07/86).....	4352
STONE, W.C., REEVE, C.P., "A NEW STATISTICAL METHOD FOR PREDICTION OF CONCRETE STRENGTH FROM IN-PLACE TESTS", ASTM CEMENT, CONCRETE, AND AGGREGATES VOL. 8, NO. 1, PP. 10 (08/86).....	4199
MCLEAN, D.I., LEW, H.S., PHAN, L. T., "PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: 1/25-SCALE MODEL STUDY", NBS INTERAGENCY REPORT 86-3454, (09/86).....	4312
CHUNG, K.Y., YOKEL, F.Y., "STUDY OF REVERSE TORQUE RATIO IN THE HELICAL PROBE TEST", NBS INTERAGENCY REPORT 86-3423, (09/86).....	3085
COOK, G., KUMARASENA, T., SIMIU, E., "AMPLIFICATION OF WIND EFFECTS ON COMPLIANT PLATFORMS", WIND EFFECTS ON OFFSHORE PLATFORMS, STRUCTURES CONGRESS, AMERICAN SOCIETY OF CIVIL ENGINEERS, NEW ORLEANS, LA SEPT. 1986, (09/86).....	3078
CARINO, N.J., SANSALONE, M., HSU, N.N., "FLAW DETECTION IN CONCRETE BY FREQUENCY SPECTRUM ANALYSIS OF IMPACT-ECHO WAVEFORMS", INTERNATIONAL ADVANCES IN NONDESTRUCTIVE TESTING VOL. 12, (09/86).....	3070
STONE, W.C., CARINO, N.J., REEVE, C.P., "STATISTICAL METHODS FOR IN-PLACE STRENGTH PREDICTIONS BY THE PULLOUT TEST", ACI JOURNAL VOL. 83, NO. 2, (09/86).....	3139
SANSALONE, M., CARINO, N.J., "IMPACT-ECHO: A METHOD FOR FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES", NBS INTERAGENCY REPORT 86-3452, (09/86).....	4350
STONE, W.C., RODRIGUEZ-CUEVAS, N., "PRELIMINARY DYNAMIC ANALYSES OF THE MINISTRY OF AGRICULTURE BUILDING", PROCEEDINGS, INTERNATIONAL CONFERENCE ON MEXICO EARTHQUAKES: FACTORS INVOLVED AND LESSONS LEARNED, (10/86).....	4195
SIMIU, E., "RELIABILITY OF COMPLIANT DRILLING AND PRODUCTION PLATFORMS", 1985 REPORT, TECHNICAL ASSESSMENT AND RESEARCH PROGRAM FOR OFFSHORE MINERALS OPERATIONS, (10/86).....	3079
SCRIBNER, C., LEYENDECKER, E.V., "PLAN FOR A DESIGN STUDY FOR A NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY", NBS INTERAGENCY REPORT 86-3453, (10/86).....	4370
GROSS, J.L., LEW, H.S., "ANALYSIS OF SHORING LOADS AND SLAB CAPACITY FOR MULTISTORY CONCRETE CONSTRUCTION FORMING ECONOMICAL CONCRETE BUILDINGS ACI SP-90 PP. 109-125, (11/86).....	4353
CHEOK, G.S., STONE, W.C., "BEHAVIOR OF 1/6-SCALE MODEL BRIDGE COLUMNS SUBJECTED TO CYCLIC INELASTIC LOADING", NBS INTERAGENCY REPORT 86-3494 (11/86).....	4167

STONE, W.C., YOKEL, F.Y., CELEBI, M., HANKS, T., LEYENDECKER, E.V., "ENGINEERING ASPECTS OF THE 1985 MEXICO EARTHQUAKE", NBS BUILDING SCIENCE SERIES 165, (11/86).....	4196
HELLIER, A.K., SANSALONE, M., CARINO, N.J., STONE, W.C., INGRAFFEA, A.R., "FINITE ELEMENT ANALYSIS OF THE PULLOUT TEST USING A NONLINEAR DISCRETE CRACKING APPROACH", ASTM JOURNAL OF CEMENT, CONCRETE AND AGGREGATES VOL. 8, NO. 2, (12/86).....	4194
HENDRICKSON, E.M., ELLINGWOOD, B.R., MURPHY, J.F., "LIMIT STATE PROBABILITIES FOR WOOD STRUCTURAL MEMBERS", JOURNAL OF STRUCTURAL ENGINEERING VOL. 112, NO. 12, (12/86).....	3083
SCRIBNER, C., "REINFORCEMENT BUCKLING IN REINFORCED CONCRETE FLEXURAL MEMBERS", ACI JOURNAL VOL. 83; NO. 6; PP. 966-973, (12/86).....	4371
SCRIBNER, C., CULVER, C.G., "NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY STUDY", NBS SPECIAL PUBLICATION 729, (00/87).....	4059
YOKEL, F.Y., BEA, R.G., "MAT FOUNDATIONS FOR OFFSHORE STRUCTURES IN ARCTIC REGIONS", NBS INTERAGENCY REPORT 86-3419, (02/87).....	4500
GAYNOR, P., WOODWARD, K., SCRIBNER, C., "INFLUENCE OF MORTAR BEDDING ON MASONRY PRISM BEHAVIOR", NBS INTERAGENCY REPORT 86-3467, (02/87).....	4276
SIMIU, E., HENDRICKSON, E.M., "DESIGN CRITERIA FOR GLASS CLADDING SUBJECTED TO WIND LOADS", JOURNAL OF STRUCTURAL ENGINEERING, (03/87).....	4185
MARSHALL, R., "FAA LIRS STRUCTURAL COMPONENT TESTS", NBS LETTER REPORT, (04/87).....	4816
RAUFASTE, N.J., "WIND AND SEISMIC EFFECTS", NBS INTERAGENCY REPORT 87-3540, (04/87).....	4062
SANSALONE, M., CARINO, N.J., HSU, N.N., "FINITE ELEMENT STUDIES OF TRANSIENT WAVE PROPAGATION", REVIEW IN PROGRESS IN QUANTITATIVE NONDESTRUCTIVE EVALUATION VOL. 6A, PP. 125-134, (04/87).....	4351
LEYENDECKER, E.V., STONE, W.C., YOKEL, F.Y., "EARTHQUAKE DAMAGE IN MEXICO CAUSED BY THE SEPTEMBER 1985 EARTHQUAKE", PROCEEDINGS 1986 UJNR, (05/87).....	4198
SIMIU, E., "WIND ENGINEERING-RECENT INVESTIGATION AND RESEARCH NEEDS", PROCEEDINGS, U.S.-AUSTRIA JOINT SEMINAR ON STOCHASTIC STRUCTURAL DYNAMICS (05/87).....	4273
CHEOK, G., STONE, W.C., LEW, H.S., "INELASTIC BEHAVIOR OF 1/6 SCALE MODEL BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING", PROCEEDINGS OF THE THIRD U.S.-JAPAN BRIDGE WORKSHOP, (05/87).....	4357
CARINO, N.J., STONE, W.C., "ANALYSIS OF IN-PLACE TEST DATA WITH SPREADSHEET SOFTWARE", COMPUTER USE FOR STATISTICAL ANALYSIS OF CONCRETE TEST DATA ACI SP-101; PP. 1-26, (05/87).....	2871
RAUFASTE, N.J., "BUILDING TECHNOLOGY PROJECT SUMMARIES, 1987", NBS INTERAGENCY REPORT 87-3565, (05/87).....	4327
LEYENDECKER, E.V., STONE, W.C., CHEOK, G.S., "LARGE SCALE BRIDGE COLUMN TESTS: A PROGRESS REPORT", PROCEEDINGS 1986 UJNR, (05/87).	4197

PESSIKI, S.P., CARINO, N.J., "MEASUREMENT OF THE SETTING TIME AND STRENGTH OF CONCRETE BY THE IMPACT-ECHO METHOD", NBS INTERAGENCY REPORT 87-3575, (07/87).....	4349
SIMIU, E., HENDRICKSON, E.M., "WIND TUNNEL TESTS AND EQUIVALENT ONE-MINUTE LOADS FOR THE DESIGN OF CLADDING GLASS", ELSEVIER SCIENCE PUBLISHERS AMSTERDAM - INTERNATIONAL JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS VOL. 29, (07/87).....	4189
SANSALONE, M., CARINO, N.J., HSU, N.N., "A FINITE ELEMENT STUDY OF TRANSIENT WAVE PROPAGATION IN PLATES", JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO. 4, PP. 267-278, (07/87).....	4347
CARRASO, A.S., SIMIU, E., "DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES", PROCEEDINGS OF NATIONAL CONFERENCE OF THE STRUCTURAL ENGINEERS ASSOCIATION OF AUSTRALIA, (08/87).....	4187
SANSALONE, M., CARINO, N.J., HSU, N.N., "A FINITE ELEMENT STUDY OF THE INTERACTION OF TRANSIENT STRESS WAVES WITH PLANAR FLAWS", JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO. 4, PP. 267-279, (08/87).....	4348
CARASSO, A.S., SIMIU, E., "DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES", PROCEEDINGS, FIRST NATIONAL STRUCTURAL ENGINEERING CONFERENCE PP. 341-344, (08/87).....	4529
LEW, H.S., SIMIU, E., ELLINGWOOD, B.R., "LOADS - CHAPTER 2, BUILDING STRUCTURAL DESIGN HANDBOOK", JOHN WILEY & SONS, (08/87).....	4355
CULVER, C.G., SCRIBNER, C., MARSHALL, R., YOKEL, F.Y., GROSS, J.L., YANCEY, C.Y., HENDRICKSON, E.M., "INVESTIGATION OF L'AMBIANCE PLAZA BUILDING COLLAPSE IN BRIDGEPORT, CONNECTICUT", NBS INTERAGENCY REPORT 87-3640, (09/87).....	4321
HSU, N.N., CHEN, G., SANSALONE, M., "CHARACTERIZATION OF A PIEZOELECTRIC TRANSDUCER COUPLED TO A SOLID", IEEE ULTRASONICS SYMPOSIUM, (10/87).....	4376
SCRIBNER, C., CULVER, C.G., "INVESTIGATION OF THE COLLAPSE OF L'AMBIANCE PLAZA", AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE, (11/87).....	4323
LEW, H.S., "THE WHITTIER NARROWS EARTHQUAKE OF OCTOBER 1, 1987 A RECONNAISSANCE REPORT", NBS INTERAGENCY REPORT 87-3667, (11/87).....	4354
SANSALONE, M., CARINO, N.J., "TRANSIENT IMPACT RESPONSE OF PLATES CONTAINING FLAWS", JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO. 6, PP. 369-381, (11/87).....	4346
YANCEY, C.W., GREENBERG, J., "GUIDELINES AND PROCEDURES FOR IMPLEMENTATION OF EXECUTIVE ORDER ON SEISMIC SAFETY", NBS INTERAGENCY REPORT 88-3711, (11/87).....	4451

SIMIU, E., "HURRICANE CLIMATOLOGY", NSF/WERC SYMPOSIUM ON HIGH WINDS AND BUILDING CODES, KANSAS CITY, MISSOURI, 11 2-4, 1987, (11/87).....	4533
MARSHALL, R., "1988 REVISION OF ANSI A58.1", PROCEEDINGS OF WERC/NSF WIND ENGINEERING SYMPOSIUM, KANSAS CITY, MO, (11/87)....	4817
SIMIU, E., LECHNER, J.R., "EXPERIMENTAL GLASS FAILURE DATA AND EQUIVALENT ONE-MINUTE LOADS", JOURNAL OF STRUCTURAL ENGINEERING, (12/87).....	4272
SANSALONE, M., CARINO, N.J., "TRANSIENT IMPACT RESPONSE OF THICK CIRCULAR PLATES", JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS VOL. 92, NO 6, PP. 355-367, (12/87).....	4345
STONE, W.C., CHEOK, G., "INELASTIC BEHAVIOR OF FULL-SCALE BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING", NIST BUILDING SCIENCE SERIES 166, (01/89)....	4656
RAUFASTE, N.J., WRIGHT, R.N., "U.S. SIDE: ACCOMPLISHMENTS AND CHALLENGES - PANEL ON WIND AND SEISMIC EFFECTS, PROCEEDINGS OF THE 20TH JOINT MEETING", NIST SPECIAL PUBLICATION 760, (01/89).....	4592
DIKKERS, R.D., HUSMANN, R., WEBSTER, J., SORG, J., HOLMES, R., "PRELIMINARY PERFORMANCE CRITERIA FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES", NIST INTERAGENCY REPORT 89-4017, (01/89).....	4639
WRIGHT, R.N., CARINO, N.J., GROSS, J.G., SANSALONE, M., "ASSESSMENT: US OFFICE BUILDING IN MOSCOW", ASCE JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES VOL. 3, NO. 1, PP. 2-15, (02/89).....	4379
YOKEL, F.Y., WRIGHT, R.N., STONE, W.C., "PROGRESSIVE COLLAPSE: US OFFICE BUILDING IN MOSCOW", ASCE JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES VOL. 3, No. 1, PP. 57-75, (02/89).....	4382
CARINO, N.J., STONE, W.C., SANSALONE, M., YOKEL, F.Y., HENDRICKSON, E.M., SIMIU, E., WRIGHT, R.N., GROSS, J.G., "STRUCTURE: US OFFICE BUILDING IN MOSCOW", ASCE JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES VOL. 3, NO. 1, PP. 16-34, (02/89).....	4380
COOK, G., "CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS", THE SIXTH U.S. NATIONAL CONFERENCE ON WIND ENGINEERING, (03/89).....	4746
LEW, H.S., "GUIDELINES FOR IDENTIFICATION AND MITIGATION OF SEISMICALLY HAZARDOUS EXISTING FEDERAL BUILDINGS", NIST INTERAGENCY REPORT 89-4062, (03/89).....	4596
COOK, G., SIMIU, E., "CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS", PROC. OF 6TH US NATIONAL CONFERENCE ON WIND ENGINEERING HOUSTON, TX, (03/89).....	4575
LADD, R.S., DOBRY, R., DUTKO, P., YOKEL, F.Y., CHUNG, R., "PORE WATER PRESSURE BUILDING IN CLEAN SANDS BECAUSE OF CYCLIC STRAINING", ASTM GEOTECHNICAL TESTING JOURNAL VOL. 12, NO.1, (03/89).....	4641

CARASSO, A.S., SIMIU, E., "IDENTIFICATION OF DYNAMIC GREEN'S FUNCTIONS IN STRUCTURAL NETWORKS", AIAA JOURNAL VOL. 27, NO. 4; PP. 492-499, (04/89).....	4655
SANSALONE, M., CARINO, N.J., "DETECTING DELAMINATIONS IN CONCRETE SLABS WITH AND WITHOUT OVERLAYS USING THE IMPACT-ECHO METHOD", MATERIALS JOURNAL OF THE AMERICAN CONCRETE INSTITUTE VOL. 86, NO. 2., (04/89).....	4324
RAUFASTE, N.J., "BUILDING TECHNOLOGY PROJECT SUMMARIES 1989", NIST INTERAGENCY REPORT 89-4068, (04/89).....	4653
YANCEY, C.W., SCRIBNER, C., "INFLUENCE OF HORIZONTAL REINFORCEMENT ON SHEAR RESISTANCE OF CONCRETE BLOCK MASONRY WALLS", 21ST UJNR PROCEEDINGS, (05/89).....	4642
STONE, W.C., WITZGALL, C., "EVALUATION OF AERODYNAMIC DRAG AND TORQUE FOR EXTERNAL TANKS IN LOW EARTH ORBIT", PROCEEDINGS OF 9TH CONFERENCE ON SPACE MANUFACTURING MAY 10 - 12, 1989, (05/89).....	4597
MARSHALL, R., "THE MEASUREMENT OF STRUCTURAL DEFLECTIONS", ASCE STRUCTURES CONGRESS SPECIAL PUBLICATION, (05/89).....	4574
PHAN, L.T., LEW, H.S., "STATIC TEST ON ONE-THIRD SCALE IMPACT LIMITER", NIST INTERAGENCY REPORT 89-4089, (05/89).....	4635
GROSS, J.L., "EXPERIMENTAL STUDY OF GUSSETED CONNECTIONS", PROCEEDINGS OF 1989 NATIONAL STEEL CONSTRUCTION CONFERENCE, (06/89).....	4595
YOKEL, F.Y., "SITE CHARACTERIZATION FOR RADON SOURCE POTENTIAL", NIST INTERAGENCY REPORT 89-4106, (06/89).....	4636
BURNS, T., COOK, G., SIMIU, E., "CHAOTIC BEHAVIOR OF GALLOPING OSCILLATORS", PROCEEDINGS OF 2ND ASIA-PACIFIC SYMPOSIUM ON WIND ENGINEERING, (06/89).....	4576
YOKEL, F.Y., "COLLAPSE OF FILING SYSTEM IN NOAA SILVER SPRING OFFICE", NIST LETTER REPORT, (06/89).....	4650
JOHNSON, M., RAMIREZ, J.A., "MINIMUM SHEAR REINFORCEMENT IN BEAMS WITH HIGHER STRENGTH CONCRETE", ACI STRUCTURAL JOURNAL VOL. 86, NO. 4; PP. 376-382, (07/89).....	4652
GROSS, J.L., SMITH, J.H., WRIGHT, R.N., "ASHLAND TANK COLLAPSE INVESTIGATION", JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES (08/89).....	4594
MARSHALL, R., "SENSORS AND MEASUREMENTS TECHNIQUES FOR ASSESSING STRUCTURAL PERFORMANCE", NIST INTERAGENCY REPORT 89-4153, (09/89).....	4736
SIMIU, E., COOK, G., "PERIODIC, QUASIPERIODIC, AND CHAOTIC MOTIONS OF FORCED AND AUTONOMOUS GALLOPING OSCILLATORS", 8TH COLLOQUIUM ON INDUSTRIAL AERODYNAMICS, AACHEN, SEPT. 4-7, 1989 (PREPRINT), (09/89).....	4637
YOKEL, F.Y., "ENERGY TRANSFER MECHANISM IN SPT", ASCE JOURNAL OF GEOTECHNICAL ENGINEERING VOLUME 13, NUMBER 9, PP. 1331-1336, (09/89).....	4651

SIMIU, E., COOK, G., "IMPULSE RESPONSE FUNCTIONS FOR ELASTIC STRUCTURAL NETWORKS WITH RIGID BODY DEGREES OF FREEDOM", JOURNAL OF SOUND AND VIBRATION VOL. 134, NO. 2, OCTOBER 22, 1989, (10/89).	4640
CARINO, N.J., "INTERPRETATION OF PROBE PENETRATION TEST RESULTS SILVER SPRING METRO CENTER 1", NIST LETTER REPORT (TO GSA), (10/89).....	4734
CARINO, N.J., "TESTS OF CONCRETE CORES FOR SILVER SPRING METRO CENTER 1", NIST LETTER REPORT, (10/89).....	4733
STONE, W. C., CHEOK, G., "AUTONOMOUS PROPULSION SYSTEM REQUIREMENTS FOR PLACEMENT OF AN STS EXTERNAL TANK IN LOW EARTH ORBIT", NIST INTERAGENCY REPORT 89-4208, (11/89).....	4727
YANCEY, C.W., SCRIBNER, C., "INFLUENCE OF HORIZONTAL REINFORCEMENT ON THE SHEAR RESISTANCE OF CONCRETE BLOCK MASONRY WALLS", NIST INTERAGENCY REPORT 89-4202, (11/89).....	4729
YOKEL, F.Y., "EARTHQUAKE RESISTANT CONSTRUCTION OF ELECTRICAL TRANSMISSION AND COMMUNICATION FACILITIES SERVING THE FEDERAL GOVERNMENT", NIST INTERAGENCY REPORT 89-4213, (12/89).....	4731
CARINO, N.J., TANK, R.C., "STATISTICAL CHARACTERISTICS OF NEW PIN PENETRATION TEST", ASTM JOURNAL OF CEMENT, CONCRETE AND AGGREGATES VOL. 11, NO.2, PP. 85-91, (12/89).....	4450

MATERIALS

- CLIFTON, J.R., GODETTE, M., "PERFORMANCE TEST FOR GRAFFITI REMOVERS",
CLEANING STONE AND MASONRY STP. 935, PP. 14-24, (00/86)..... 4066
- MASTERS, L.W., "PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND
COMPONENTS", MATERIALS AND STRUCTURES VOL. 19, NO. 114, (00/86).. 3012
- ROSSITER, W.J., CLIFTON, J.R., "THE USE OF NONDESTRUCTIVE METHODS FOR
INSPECTION OF SINGLE-PLY ROOFING MEMBRANES", DURABILITY OF
BUILDING MATERIALS VOL. 3, PP. 343-352, (00/86)..... 4065
- FROHNSDORFF, G.J., "CEMENTS: SPECIALTIES", ENCYCLOPEDIA OF MATERIALS
SCIENCE AND ENGINEERING PP. 575-579, (00/86)..... 675
- CLIFTON, J.R., "BUILDING MATERIALS: NONDESTRUCTIVE EVALUATION",
ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING, (00/86)..... 4068
- FROHNSDORFF, G.J., CLIFTON, J.R., JENNINGS, H.M., BROWN, P.W.,
STRUBLE, L.J., POMMERSHEIM, J.M., "IMPLICATIONS OF COMPUTER-BASED
SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR
CEMENT RESEARCH", PROCEEDINGS, 8TH INTERNATIONAL CONGRESS ON
THE CHEMISTRY OF CEMENTS VOL. 6 PP. 598-602, (00/86)..... 3011
- FROHNSDORFF, G.J., KOPANDA, J., "CEMENTS: CALCIUM ALUMINATE",
ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING PP. 472-474,
(00/86)..... 677
- JENNINGS, H.M., TALEB, H., "THE INFLUENCE OF SELECTED RETARDERS ON
THE HYDRATION OF A CEMENT COMPOUND: IMPLICATION ON THE SETTING
TIME IN PORTLAND CEMENT", CEMENT PRODUCTION AND USE, (00/86)..... 4020
- STRUBLE, L.J., "SYNTHESIS AND CHARACTERIZATION OF ETTRINGITE AND
RELATED PHASES", PROCEEDINGS, 8TH INTERNATIONAL CONGRESS ON THE
CHEMISTRY OF CEMENT VOL. VI, PP. 582-588, (00/86)..... 2986
- STRUBLE, L.J., BROWN, P.W., "HEATS OF DEHYDRATION AND SPECIFIC HEATS
OF COMPOUNDS FOUND IN CONCRETE AND THEIR POTENTIAL FOR ENERGY
STORAGE", SOLAR ENERGY MATERIALS VOL. 14, PP. 1-12, (00/86)..... 2985
- FROHNSDORFF, G.J., "CEMENTS: PORTLAND CEMENTS, BLENDED CEMENTS, AND
MORTARS", ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING
PP. 3847-3854, (00/86)..... 676
- MASTERS, L.W., BRANDT, E., "PREDICTION OF SERVICE LIFE OF BUILDING
MATERIALS AND COMPONENTS", CIB REPORT 96, (00/86)..... 4061
- CLIFTON, J.R., OLTIKAR, B.C., "EXPERT SYSTEM FOR SELECTING CONCRETE
CONSTITUENTS", STATE-OF-THE-ART COMPUTER APPLICATIONS SP 98,
PP. 1-24, (00/86)..... 4224
- STRUBLE, L.J., DIAMOND, S., "INFLUENCE OF CEMENT ALKALI DISTRIBUTION
ON EXPANSION DUE TO ALKALI-SILICA REACTION", ALKALIES IN CONCRETE,
ASTM STP 930, PP. 31-45, (00/86)..... 2987
- JENNINGS, H.M., PARROTT, L.J., "MICROSTRUCTURAL ANALYSIS OF HARDENED
ALITE PASTE: PART I POROSITY", JOURNAL OF MATERIALS SCIENCE
VOL. 21, PP. 4048-4052, (00/86)..... 4018

JENNINGS, H.M., PARROTT, L.J., "MICROSTRUCTURAL ANALYSIS OF HARDENED ALITE PASTE: PART II, MICROSCOPY AND REACTION PRODUCTS", JOURNAL OF MATERIALS SCIENCE VOL. 21, PP. 4053-4059, (00/86).....	4017
FROHNSDORFF, G.J. (EDITOR), "RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS", RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS, (00/86).....	4172
FROHNSDORFF, G.J., BROWN, P.W., PIELERT, J.H., "STANDARD SPECIFICATION FOR CEMENTS AND THE ROLE IN THEIR DEVELOPMENT OF QUALITY ASSURANCE SYSTEMS FOR LABORATORIES", PROCEEDINGS OF THE 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT VOL. VI, PP. 316-320, (00/86).....	4671
ROSSITER, W.J., CULLEN, W.C., MATHEY, R.G., "RECOMMENDED PRACTICES FOR U.S. POSTAL SERVICE ROOFING PROGRAM", NBS INTERAGENCY REPORT 85-3279, (01/86).....	2999
WAKSMAN, D., THOMAS, W.C., "THE NBS SOLAR COLLECTOR RELIABILITY/DURABILITY TEST PROGRAM: SUMMARY OF RESULTS AND RECOMMENDATIONS FOR COLLECTOR TESTING", JOURNAL OF SOLAR ENERGY ENGINEERING VOL. 108, NO. 1, (02/86).....	2990
MCKNIGHT, M.E., MATHEY, R.G., "SEMI-QUANTITATIVE CONDITION ASSESSMENT OF PAINTS AND SUBSTRATE SURFACES", PROCEEDINGS OF SYMPOSIUM FOR LONG-TERM PROTECTION OF STEEL STRUCTURES, PP. 1-15, (02/86).....	3006
NGUYEN, T., BYRD, W.E., TSAO, A., "CHARACTERIZATION OF EPOXY COATINGS ON COLD ROLLED STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY", JOURNAL OF APPLIED POLYMER SCIENCE VOL. 32(1986) P. 6339, (02/86).....	2988
STRUBLE, L.J., BROWN, P.W., "INORGANIC COMPOUNDS FOR PASSIVE SOLAR ENERGY STORAGE -- SOLID STATE DEHYDRATION MATERIALS AND HIGH SPECIFIC HEAT MATERIALS", NBS INTERAGENCY REPORT 86-3325, (03/86).....	2984
ROSSITER, W.J.; MATHEY, R.G., "MAGNESIUM OXYCHLORIDE CEMENT-BASED FORM INSULATION: A LITERATURE SURVEY", NBS INTERAGENCY REPORT 86-3326 (03/86).....	2997
CLIFTON, J.R., "KNOWLEDGE BASED SYSTEM FOR DURABLE REINFORCED CONCRETE", CORROSION 86 PP. 60, (03/86).....	4067
BROWN, P.W., GRIMES, J.W., KAETZEL, L.J., "EVALUATION OF THE VARIATION IN THERMAL PERFORMANCE IN A NA ₂ SO ₄ .10H ₂ O PHASE CHANGE SYSTEM", JOURNAL OF SOLAR ENERGY MATERIALS, PP. 453-461, (03/86).....	118
BROWN, P.W., "THE HYDRATION OF TRICALCIUM ALUMINATE AND TETRACALCIUM ALUMINOFERRITE IN THE PRESENCE OF GYPSUM", STRUCTURES AND MATERIALS, (04/86).....	2993
BROWN, P.W., ROSSITER, W.J., GALUK, K.G., "A MASS SPECTROMETRIC INVESTIGATION OF THE THERMAL OXIDATIVE REACTIVITY OF ETHYLENE GLYCOL", SOLAR ENERGY MATERIALS VOL. 13, PP. 197-202, (04/86)....	2996

BUSCHING, H.W., ROSSITER, W.J., MATHEY, R.G., "SUGGESTED APPROACHES FOR REVISIONS OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND TENSILE FATIGUE STRENGTH TESTS OF BITUMINOUS MEMBRANES", NBS INTERAGENCY REPORT 86-3347, (06/86).....	4054
MATHEY, R.G., "INVESTIGATION OF THE CORROSION OF ALUMINUM STANDING-SEAM ROOFING AT AN ARMY FACILITY", NBS INTERAGENCY REPORT 86-3387, (06/86).....	4058
PIELERT, J.H., "EXECUTIVE SUMMARY - CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES", NBS INTERAGENCY REPORT 86-3397, (06/86).....	4488
JENNINGS, H.M., "AQUEOUS SOLUBILITY RELATIONSHIPS FOR TWO TYPES OF CALCIUM SILICATE HYDRATE", JOURNAL OF THE AMERICAN CERAMIC SOCIETY VOL. 69, PP. 614-618, (08/86).....	4019
BROWN, P.W., "THE IMPLICATIONS OF PHASE EQUILIBRIA ON HYDRATION IN THE TRICALCIUM SILICATE-WATER AND THE TRICALCIUM ALUMINATE-GYPSUM WATER SYSTEMS", 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT, (08/86).....	2994
JENNINGS, H.M., CLIFTON, J.R., FROHNSDORFF, G.J., JOHNSON, S.K., "ON ESTABLISHING FUNCTIONAL RELATIONSHIPS BETWEEN REACTION MECHANISMS AND ENGINEERING PROPERTIES OF CEMENT-BASED SYSTEMS", RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS, PP. 87-93, (08/86).....	4042
JENNINGS, H.M., TALEB, H., FROHNSDORFF, G.J., "INTERPRETATION OF THE EFFECTS OF RETARDING ADMIXTURES ON PASTES OF C3A PLUS GYPSUM, AND PORTLAND CEMENT", PROCEEDINGS OF THE 8TH INTERNATIONAL CONGRESS ON THE CHEMISTRY OF CEMENT VOL. 3, PP. 239-243, (08/86).	4001
NGUYEN, T., BYRD, W.E., "DEGRADATION OF EPOXIDE COATINGS ON STEEL UNDER MILD CORROSIVE ENVIRONMENTS", FATIPEC CONGRESS VOL. 3, PP. 331, (09/86).....	4087
NGUYEN, T., BENTZ, D.P., BYRD, W.E., "QUANTITATIVE STUDIES OF COATINGS ON STEEL USING REFLECTION ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY", PROCEEDINGS, SYMPOSIUM POLYMERIC MATERIALS SCIENCE ENGINEERING VOL. 55, PP. 665, (09/86).....	4515
NGUYEN, T., BYRD, W.E., "DEGRADATION OF ORGANIC PROTECTIVE COATINGS ON STEEL", POLYMERIC MATERIALS FOR CORROSION CONTROL, ACS SERIES 322 VOL. 322, PP. 101, (09/86).....	4086
ROSSITER, W.J., BENTZ, D.P., "STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: AN ALTERNATIVE TO THE TENSILE STRENGTH CRITERION", NBS INTERAGENCY REPORT 86-3418, (09/86).....	4052
ROSSITER, W.J., "INVESTIGATION OF THE USE OF NONDESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF SINGLE-PLY ROOFING MEMBRANES", NBS INTERAGENCY REPORT 86-3455, (09/86).....	4053
ROSSITER, W.J., "UPDATE: ASTM STANDARDS FOR SINGLE-PLY MEMBRANES", RSI VOL. 63, NO. 10, (10/86).....	4055
NGUYEN, T., "THERMAL WAVE MICROSCOPY", CHEMTECH VOL. 16 (1986), PP. 634, (10/86).....	4083

MCKNIGHT, M.E., "EFFECT OF VOLATILE ORGANIC REGULATIONS ON THE SELECTION AND USE OF COATINGS INCLUDED IN AFM 85-3", NBS INTERAGENCY REPORT 86-3499, (10/86).....	4060
ROSSITER, W.J., "ASTM STANDARDS ACTIVITIES FOR SINGLE-PLY ROOFING: THE EPDM SPECIFICATION IS CLOSE TO COMPLETION", RSI, 1987 HANDBOOK OF COMMERCIAL ROOFING, PP. 26-29, (11/86).....	4225
STRUBLE, L.J., BYRD, W.E., "EPOXY IMPREGNATION OF HARDENED CEMENT PASTES FOR CHARACTERIZATION OF MICROSTRUCTURE", NBS INTERAGENCY REPORT 87-3504, (11/86).....	4206
JENNINGS, H.M., JOHNSON, S.K., "SIMULATION OF MICROSTRUCTURE DEVELOPMENT DURING THE HYDRATION OF CEMENT COMPOUND", JOURNAL OF THE AMERICAN CERAMIC SOCIETY VOL. 69, PP. 790-795, (11/86).....	4016
FROHNSDORFF, G.J., JENNINGS, H.M., STRUBLE, L.J., "INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE AND OTHER MATERIALS", COMMUNICATIONS ON THE MATERIALS SCIENCE AND ENGINEERING STUDY, PP. 57-60, (12/86).....	4209
JENNINGS, H.M., STRUBLE, L.J., CLIFTON, J.R., FROHNSDORFF, G.J., "A MICROSTRUCTURAL FEATURE WHICH MAY BE RELATED TO STRENGTH OF CONCRETE", 1ST NCB INTERNATIONAL SEMINAR ON PRAGMATIC STRATEGIES FOR PRODUCTIVITY AND MODERNIZATION, JAN. 6-9, 1987, IX-1 - IX-8, (00/87).....	4014
PIELERT, J.H., KOLOS, R.M., "POZZOLAN PROGRAMS OF THE CEMENT AND CONCRETE REFERENCE LABORATORY", PROCEEDINGS OF THE EIGHTH INTERNATIONAL ASH UTILIZATION SYMPOSIUM CS-5362, (00/87).....	4227
NGUYEN, T., BYRD, W.E., "REFLECTION/ABSORPTION FTIR OF THE DEGRADATION OF PROTECTIVE COATINGS ON MILD STEEL", ADVANCES IN ORGANIC COATINGS SCIENCE TECHNOLOGY SERIES VOL. 9, PP. 178, (00/87).....	4674
BUSCHING, H.W., ROSSITER, W.J., MATHEY, R.G., "A REVIEW OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND TENSILE FATIGUE TESTS OF BITUMINOUS ROOFING MEMBRANES", DURABILITY OF BUILDING MATERIALS, VOL. 4, PP. 323-342, (00/87).....	4523
GARTNER, E.M., JENNINGS, H.M., "THERMODYNAMICS OF CALCIUM SILICATE HYDRATES AND THEIR SOLUTIONS", JOURNAL OF THE AMERICAN CERAMIC SOCIETY, (00/87).....	4222
BROWN, P.W., GALUK, K.G., ROSSITER, W.J., "CHARACTERIZATION OF POTENTIAL THERMAL DEGRADATION PRODUCTS FROM THE REACTIONS OF AQUEOUS ETHYLENE GLYCOL AND PROPYLENE GLYCOL SOLUTIONS WITH COPPER METAL", SOLAR ENERGY MATERIALS VOL. 16, PP. 309-313, (00/87).....	4522
NGUYEN, T., BYRD, W.E., "CORROSION-INDUCED DEGRADATION OF AMINE-CURED EPOXY COATINGS ON COLD-ROLLED STEEL", AMERICAN CHEMICAL SOCIETY SYMPOSIUM SERIES, (00/87).....	4229
ROSSITER, W.J., "TEST OF ADHESIVE-BONDED SEAMS OF SINGLE-PLY RUBBER MEMBRANES", ASTM SPECIAL TECHNICAL PUBLICATION, ASTM STP 959, PP. 53-62, (00/87).....	4524

ROSSITER, W.J., "THE USE OF T-PEEL TESTS TO INVESTIGATE THE EFFECT OF APPLICATION PARAMETERS ON ADHESIVE-BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES", DURABILITY OF BUILDING MATERIALS, (00/87).....	4223
ROSSITER, W.J., "ASTM COMMITTEE COMPLETES WORK ON EPDM SPECIFICATION", 1987 HANDBOOK OF COMMERCIAL ROOFING SYSTEMS, (00/87).....	4528
MASTERS, L.W., "POTENTIAL APPLICATIONS OF A SEQUENTIAL CONSTRUCTION ANALYZER", NBS INTERAGENCY REPORT 87-3599, (00/87).....	4226
ROSSITER, W.J., "FIELD EVALUATION OF THE QUALITY OF NEWLY FORMED ADHESIVE-BONDED SEAMS OF SINGLE-PLY MEMBRANES", THIRD INTERNATIONAL CONFERENCE ON ROOFS AND ROOFING PROCEEDINGS PP. 273-288, (00/87).....	4243
ROSSITER, W.J., "NON-DESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF SINGLE-PLY ROOFING MEMBRANES", INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, SPIE VOL. 780, PP. 2-10, (00/87).....	4527
JENNINGS, H.M., DALGLEISH, B., PRATT, P., "ON REACTION BETWEEN SILICON AND NITROGEN PART II MICROSTRUCTURE", JOURNAL OF MATERIALS SCIENCE (00/87).....	4205
ROSSITER, W.J., BENTZ, D.P., "STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: A NEW CONCEPT IN LOAD-ELONGATION TESTING", 8TH CONFERENCE ON ROOFING TECHNOLOGY, PP. 40-49, (00/87).....	4525
MARTIN, J.W., BENTZ, D.P., "ROUGHNESS MEASURES OF BLASTED STEEL SURFACES REMOTELY IMAGED WITH A THERMOGRAPHIC CAMERA", PROCEEDINGS 1986 ELECTROCHEMICAL SOCIETY, (01/87).....	4049
MARTIN, J.W., EMBREE, E.J., BENTZ, D.P., "EFFECTS OF TEMPERATURE AND STRESS ON THE TIME-TO-FAILURE OF EPDM T-PEEL JOINTS", NRCA/NBS 8TH CONFERENCE ON ROOFING TECHNOLOGY, (01/87).....	4048
MASTERS, L.W., BRANDT, E., "PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS", MATERIALS AND STRUCTURES VOL. 20, NO. 115, (01/87).....	4846
NGUYEN, T., BYRD, W.E., TSAO, A., "APPLICATION OF REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY", JOURNAL OF COATING TECHNOLOGY VOL. 59, PP. 39, (01/87).....	4084
MARTIN, J.W., BENTZ, D.P., "FRACTAL-BASED DESCRIPTION OF THE ROUGHNESS OF BLASTED STEEL PANELS", JOURNAL OF COATING TECHNOLOGY, (02/87).	2989
ROSSITER, W.J., "D-B REPORTS ON SINGLE-PLY ROOFING ACTIVITIES", ASTM STANDARDIZATION NEWS VOL. 15, NO. 2, (02/87).....	4056
ROSSITER, W.J., "ROOFER INTERVIEW", ROOFER MAGAZINE VOL. 7, NO. 2 (02/87).....	4057
CLIFTON, J.R., "PRELIMINARY PERFORMANCE CRITERIA FOR STONE TREATMENTS FOR THE UNITED STATES CAPITOL", NBS INTERAGENCY REPORT 87-3542, (03/87).....	4207
JENNINGS, H.M., GRIMES, J.W., BROWN, P.W., "A WET CELL TO OBSERVE THE HYDRATION OF A CEMENT IN A SCANNING ELECTRON MICROSCOPE", NATURE, (04/87).....	4208

NGUYEN, T., BYRD, W.E., "CORROSION INDUCED DEGRADATION OF ANINE CURED EPOXY COATINGS ON STEEL", PROCEEDINGS POLYMERIC MATERIALS SCIENCE AND ENGINEERING VOL. 56, PP. 584, (04/87).....	4090
STRUBLE, L.J., "THE INFLUENCE OF CEMENT PORE SOLUTION ON ALKALI-SILICA REACTION", NBS INTERAGENCY REPORT 87-3632, (05/87).....	4241
BENTZ, D.P., MARTIN, J.W., "USING THE COMPUTER TO ANALYZE COATING DEFECTS", JOURNAL OF PROTECTIVE COATINGS AND LININGS VOL. 4, PP. 38-45, (05/87).....	4047
NGUYEN, T., BYRD, W.E., "DEGRADATION OF ORGANIC PROTECTIVE COATINGS IN CORROSIVE ENVIRONMENT", PROCEEDINGS RILEM CONGRESS, (09/87)...	4091
BENTZ, D.P., JENNINGS, H.M., "QUANTITATIVE CHARACTERIZATION OF THE MICROSTRUCTURE OF HARDENED TRICALCIUM SILICATE PASTE USING COMPUTER IMAGE", RILEM 1987 INTERNATIONAL CONFERENCE FROM MATERIALS SCIENCE TO MATERIAL ENGINEERING, PP. 49-56, (09/87)....	4046
NGUYEN, T., "IMAGING AND ASSESSMENT OF CORROSION ON COATED AND UNCOATED STEEL", PROCEEDINGS RILEM CONGRESS VOL. 2, PP. 651 (09/87).....	4089
BROWN, P.W., GALUK, K.G., "A MODEL FOR PARTICLE SIZE AND PHASE DISTRIBUTIONS IN CEMENT", MICROSTRUCTURAL DEVELOPMENT IN CEMENT (09/87).....	4249
PIELERT, J.H., SPRING, C.B., "APPLICATION OF CCRL DATA IN THE DEVELOPMENT OF CEMENT STANDARDS", ASTM SPECIAL TECHNICAL PUBLICATION STP 961, (09/87).....	4489
NGUYEN, T., MCKNIGHT, M.E., BYRD, W.E., SEILER, J.F., "INTERFACE BOND STRENGTH OF ORGANIC FILMS ON METALS USING REFLECTION/ABSORPTION FTIR", NBS INTERAGENCY REPORT 87-3611, (10/87).....	4512
STRUBLE, L.J., "DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES", CEMENT RESEARCH PROGRESS 1986, PP. 297-350, (10/87).....	4289
KNAB, L.I., CLIFTON, J.R., "MECHANICAL AND PHYSICAL PROPERTIES OF COQUINA STONE FROM CASTILLO DE SAN MARCOS NATIONAL MONUMENT", PROCEEDINGS OF EIGHTH ICOMOS, (10/87).....	4258
FROHNSDORFF, G.J., MASTERS, L.W., "PREDICTION OF SERVICE LIFE OF CONSTRUCTION AND OTHER MATERIALS", COMMUNICATIONS ON THE MATERIALS SCIENCE AND ENGINEERING STUDY, PP. 61-74, (11/87).....	4173
PIELERT, J.H., SPRING, C.B., "PROCEEDINGS OF THE CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES", NBS SPECIAL PUBLICATION 736, (11/87).....	4313
ROSSITER, W.J., "NONDESTRUCTIVE METHODS FOR INSPECTING SINGLE PLY ROOFING SEAMS", THE CONSTRUCTION SPECIFIER, (11/87).....	4666
ROSSITER, W.J., BROWN, P.W., "AN INITIAL INVESTIGATION OF THE PROPERTIES AND PERFORMANCE OF MAGNESIUM OXYCHLORIDE-BASED FOAM THERMAL INSULATION", NBS INTERAGENCY REPORT 87-3642, (12/87).....	4518
STRUBLE, L.J., WATERS, N., "TENSILE TEST TO MEASURE ADHESION BETWEEN OLD AND NEW CEMENT PASTE", NBS INTERAGENCY REPORT 87-3685, (12/87).....	4307

ROSSITER, W.J., ROBERTS, W.E., MATHEY, R.G., "FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: THE BASIS FOR A FIELD TEST METHOD", NBS INTERAGENCY REPORT 87-3621, (12/87).....	4244
ROSSITER, W.J., MATHEY, R.G., "RISKS OF BLISTERING OF BUILT-UP ROOFING MEMBRANES APPLIED TO POLYURETHANE FOAM INSULATION", PROCEEDINGS OF CONFERENCE ON THERMAL INSULATION SYSTEMS AND MATERIALS, ASTM STP 922, (12/87).....	2808
ROSSITER, W.J., "EFFECT OF APPLICATION VARIABLES ON BOND STRENGTH OF EPDM'S", 1988 HANDBOOK OF COMMERCIAL ROOFING SYSTEMS, (00/88)...	4526
STRUBLE, L.J., STUTZMAN, P.E., "EPOXY IMPREGNATION OF HARDENED CEMENT FOR MICROSTRUCTURAL CHARACTERIZATION", JOURNAL OF MATERIALS SCIENCE LETTER, (00/88).....	4492
ROSSITER, W.J., "FURTHER INVESTIGATION OF THE EFFECT OF APPLICATION PARAMETERS ON ADHESIVE BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES", MATERIALS AND STRUCTURES VOL. 21, PP. 243-249, (00/88).....	4520
MATHEY, R.G., KNAB, L.I., GROSS, J.L., SMALL, J.A., "PROCEDURES FOR SPRINKLER INSTALLATION ON SURFACES WITH FIREPROOFING MATERIALS", NBS INTERAGENCY REPORT 87-3676, (02/88).....	4287
KNAB, L.I., "FACTORS RELATED TO THE PERFORMANCE OF CONCRETE REPAIR MATERIALS", US ARMY TECHNICAL REPORT, REMR CS-12, (03/88).....	4259
MARTIN, J.W., BENTZ, D.P., KAETZEL, L.J., MCKNIGHT, M.E., "AN AUTOMATED MAINTENANCE MANAGEMENT PROGRAM PART I: QUANTITATIVE ASSESSMENT OF THE EXTERIOR CONDITION OF METAL BUILDINGS AND ROOFING SYSTEMS, ETC.", NBS INTERAGENCY REPORT 88-3719, (03/88)..	4317
STRUBLE, L.J., STUTZMAN, P.E., "EPOXY IMPREGNATION PROCEDURE FOR HARDENED CEMENT SAMPLES", NBS INTERAGENCY REPORT 88-3702, (03/88).....	4334
STRUBLE, L.J., "MICROSTRUCTURE AND FRACTURE AT THE CEMENT PASTE-AGGREGATE INTERFACE", MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS VOL. 114, (03/88).....	4333
MATHEY, R.G., ROSSITER, W.J., "A REVIEW OF AUTOCLAVED AERATED CONCRETE PRODUCTS", NBS INTERAGENCY REPORT 87-3670, (03/88).....	4286
KNAB, L.I., SPRING, C.B., "EVALUATION OF TEST METHODS FOR MEASURING THE BOND OF PORTLAND CEMENT-BASED REPAIR MATERIALS TO CONCRETE", NBS INTERAGENCY REPORT 88-3746, (04/88).....	4668
MATHEY, R.G., CLIFTON, J.R., "REVIEW OF NONDESTRUCTIVE EVALUATION METHODS APPLICABLE TO CONSTRUCTION MATERIALS AND STRUCTURES", NBS TECHNICAL NOTE 1247, (06/88).....	4314
FROHNSDORFF, G.J., CLIFTON, J.R., POMMERSHEIM, J.M., JENNINGS, H.M., STRUBLE, L.J., "IMPLICATIONS OF COMPUTER-BASED SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR ADVANCING CEMENT RESEARCH", CERAMIC BULLETIN VOL. 67, NO. 8, PP. 1368-1371, (08/88).....	4507
STRUBLE, L.J., "DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES", CEMENTS RESEARCH PROGRESS 1987, (08/88).....	4471

NGUYEN, T., BYRD, W.E., "FTIR SPECTROSCOPIC STUDIES OF THE DEGRADATION OF ONE-COMPONENT POLYURETHANE PROTECTIVE COATINGS ON STEEL", PROCEEDINGS OF THE XIX FATIPEC CONGRESS, (09/88).....	4509
NGUYEN, T., BYRD, W.E., BENTZ, D.P., "REFLECTION/ABSORPTION FTIR SPECTRAL CHARACTERIZATION OF THICK AND THIN CROSSLINKED EPOXY FILMS ON STEEL SUBSTRATES", PROCEEDINGS OF THE AMERICAN CHEMICAL SOCIETY MEETING VOL. 59, PP. 459, (09/88).....	4508
NGUYEN, T., BYRD, W.E., BENTZ, D.P., "CHARACTERIZATION OF EPOXIDE COATINGS ON STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY - A QUANTITATIVE STUDY", PROCEEDINGS OF THE FATIPEC CONGRESS XIX, (09/88).....	4332
LIN, C., NGUYEN, T., "AN ELECTROCHEMICAL TECHNIQUE FOR RAPIDLY EVALUATING PROTECTIVE COATINGS ON METALS", NBS TECHNICAL NOTE 1253, (10/88).....	4513
ROSSITER, W.J., ROBERTS, W.E., MATHEY, R.G., "FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: LABORATORY EVALUATION OF THE PROTOTYPE TEST DEVICES", NIST INTERAGENCY REPORT 88-3848, (10/88).....	4474
CLIFTON, J.R., KAETZEL, L.J., "EXPERT SYSTEM FOR CONCRETE CONSTRUCTION", CONCRETE INTERNATIONAL VOL. 10, NO. 11, PP. 19-24 (11/88).....	4316
STRUBLE, L.J., STUTZMAN, P.E., FULLER, E., "MICROSTRUCTURAL ASPECTS OF THE FRACTURE OF HYDRATED CEMENT", JOURNAL OF THE AMERICAN CERAMIC SOCIETY, (11/88).....	4548
ROSSITER, W.J., MASTERS, L.W., "SUGGESTED RESEARCH TOPICS FOR THE CERL PROGRAM, EVALUATION OF ROOFING MATERIALS DEGRADATION PROCESSES", NIST INTERAGENCY REPORT 88-3870, (11/88).....	4537
KNAB, L.I., WATERS, N.E., "A METHOD TO MEASURE THE TENSILE BOND STRENGTH BETWEEN TWO WEAKLY-CEMENTED SAND GRAINS", NIST INTERAGENCY REPORT 88-3883, (11/88).....	4676
NGUYEN, T., "THERMAL WAVE MICROSCOPY IN CORROSION STUDIES", PROCEEDINGS OF METALLOGRAPHY AND CORROSION SYMPOSIUM, (12/88)....	4511
ROSSITER, W.J., SEILER, J.F., "REPORT OF ROOF INSPECTION: DELAMINATION OF ADHESIVE-BONDED SEAMS AT AN ARMY FACILITY", NIST INTERAGENCY REPORT 88-3893, (12/88).....	4519
FROHNSDORFF, G.J., "INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE SCIENCE AND TECHNOLOGY", MATERIALS SCIENCE OF CONCRETE VOL. 1, PP. 315-332, (00/89).....	4315
MARTIN, J.W., "ACCELERATED AGING TEST DESIGN FOR COATING SYSTEMS", PROCEEDINGS 15TH INTERNATIONAL CONFERENCE IN ORGANIC COATINGS SCIENCE AND TECHNOLOGY, PP. 237, (00/89).....	4567
BENTZ, D.P., MARTIN, J.W., BATTS, M.E., "CHARACTERIZATION OF CYLINDRICAL HOLES IN METALLIC SUBSTRATES VIA THEIR INFRARED EMISSION PATTERNS", WEAR, (00/89).....	4712
FROHNSDORFF, G.J., "PORTLAND CEMENTS, BLENDED CEMENTS AND MORTARS", CONCISE ENCYCLOPEDIA OF MINERAL RESOURCES, PP. 278-285, (00/89)..	4703

STRUBLE, L.J., "COMPUTER SIMULATION OF PARTICLE SIZE DISTRIBUTION EFFECTS ON CEMENT MICROSTRUCTURE", AMERICAN CONCRETE INSTITUTE SYMPOSIUM PROCEEDINGS, (00/89).....	4695
MCKNIGHT, M.E., MARTIN, J.W., "THE DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING AND CORROSION OF COATINGS ON STEEL INFRARED THERMOGRAPHY", JOURNAL OF COATINGS TECHNOLOGY VOL. 61 (775), PP. 57-62, (01/89).....	4544
NGUYEN, T., OLSON, C., "APPLICATION OF THERMAL WAVE ELECTRON MICROSCOPY TO IMAGE AND ASSESS CORROSION ON ROUGH STEEL", MATERIALS AND STRUCTURES VOL. 22, PP. 71, (01/89).....	4085
ROSSITER, W.J., STREICHER, M.A., ROBERTS, W.E., "CORROSION OF METALLIC FASTENERS IN LOW-SLOPED ROOFS: A REVIEW OF AVAILABLE INFORMATION AND IDENTIFICATION OF RESEARCH NEEDS", NIST INTERAGENCY REPORT 88-4008, (01/89).....	4546
NGUYEN, T., COLLINS, B.L., KAETZEL, L.J., MARTIN, J.W., MCKNIGHT, M.E., "RELATIONSHIP BETWEEN APPEARANCE AND PROTECTIVE DURABILITY OF COATINGS: A LITERATURE REVIEW", NIST INTERAGENCY REPORT 88-4010, (01/89).....	4545
ROSSITER, W.J., SEILER, J.F., "INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS", NBS BUILDING SCIENCE SERIES 167, (02/89).....	4472
FROHNSDORFF, G.J., "INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY", PROCEEDINGS OF SYMPOSIUM ON MATHEMATICAL MODELING OF LOW SLOPE ROOF SYSTEMS, (02/89).....	4687
MASTERS, L.W., "A RELIABILITY-BASED APPROACH TO SERVICE LIFE PREDICTION", PROCEEDINGS OF SYMPOSIUM ON MATHEMATICAL MODELING OF LOW SLOPE ROOF SYSTEMS, (02/89).....	4743
ROSSITER, W.J., ROBERTS, W.E., MATHEY, R.G., "FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: FIELD EVALUATION OF PROTOTYPE TEST DEVICES", NBS INTERAGENCY REPORT 88-4012, (02/89).....	4622
MCKNIGHT, M.E., BYRD, W.E., "SCREENING PROCEDURES FOR DETECTING LEAD IN EXISTING PAINT FILMS: A LITERATURE REVIEW", NIST INTERAGENCY REPORT 89-4044, (03/89).....	4562
ROSSITER, W.J., SEILER, J.F., "INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS: A SUMMARY REPORT", INTERNATIONAL JOURNAL OF ROOFING TECHNOLOGY VOL. 1, PP. 19-24, (04/89).....	4621
STUTZMAN, P.E., LENKER, S., CAMPBELL, D., STRUBLE, L.J., KANARE, H., TANG, F., "STANDARD CEMENT CLINKERS FOR PHASE ANALYSIS", PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON CEMENT MICROSCOPY, PP. 154-168, (04/89).....	4589
FROHNSDORFF, G.J., "INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY", INTERNATIONAL JOURNAL OF ROOFING TECHNOLOGY VOL. 1, PP. 32-34, (04/89).....	4688

MARTIN, J.W., ROSSITER, W.J., EMBREE, E.J., "EFFECT OF CONTAMINATION LEVEL ON CURE STRENGTH BUTYL ADHERED EPDM T-PEEL JOINTS", PROCEEDINGS OF THE 9TH CONFERENCE ON ROOFING TECHNOLOGY, PP. 64, (05/89).....	4559
MARTIN, J.W., MCKNIGHT, M.E., NGUYEN, T., EMBREE, E.J., "CONTINUOUS VERSUS CYCLIC WET-DRY EXPOSURE RESULTS FOR SCRIBED STEEL COATED PANELS", JOURNAL COATINGS TECHNOLOGY VOL. 61 (772), PP. 39, (05/89).....	4534
ROSSITER, W.J., SEILER, J.F., STUTZMAN, P.E., "FIELD TESTING OF ADHESIVE-BONDED SEAMS OF RUBBER ROOFING MEMBRANES", 9TH NIST/NRCA CONFERENCE ON ROOFING TECHNOLOGY, PP. 64-72, (05/89).....	4547
STRUBLE, L.J., BROCKMAN, M., "STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION STUDIES", PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON ALKALI-AGGREGATE REACTION (TOKYO) (05/89).....	4604
STRUBLE, L.J., DIAMOND, S., "INFLUENCE OF CEMENT PORE SOLUTION ON EXPANSION", PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON ALKALI-AGGREGATE REACTION (TOKYO), (05/89).....	4605
STRUBLE, L.J., BROCKMAN, M., "STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION STUDIES", NIST INTERAGENCY REPORT 89-4058 (05/89).....	4603
LIN, C., NGUYEN, T., "AN AC-IMPEDANCE SPECTROSCOPY STUDY OF THE EFFECTS OF SURFACE ROUGHNESS AND CONTAMINATION ON THE CORROSION BEHAVIOR OF EPOXY COATED STEEL", PROCEEDINGS OF THE ELECTROCHEMICAL SOCIETY SYMPOSIUM VOL. 89-1, PP. 71-72, (05/89).....	4673
NGUYEN, T., LIN, C., "IN SITU MEASUREMENTS OF MOLECULAR BEHAVIOR AT THE STEEL/OPAQUE COATINGS INTERFACE USING FTIR MULTIPLE REFLECTION (ETC.)", PROCEEDINGS OF ELECTROCHEMICAL SOCIETY SYMPOSIUM VOL. 89 (1), PP. 793, (05/89).....	4680
CLIFTON, J.R., KNAB, L.I., "SERVICE LIFE OF CONCRETE", NIST INTERAGENCY REPORT 89-4086, (06/89).....	4580
MATHEY, R.G., CLIFTON, J.R., "GUIDE SPECIFICATIONS AND REFERENCE SPECIFICATION SYSTEM", NIST INTERAGENCY REPORT 89-4094, (06/89)..	4581
NGUYEN, T., LIN, C., "DEVELOPMENT OF A METHOD TO MEASURE IN-SITU CHLORIDE AT THE METAL/COATING INTERFACE", NIST TECHNICAL NOTE 1266, (06/89).....	4625
KNAB, L.I., SPRING, C.B., "EVALUATION OF TEST METHODS FOR MEASURING THE BOND STRENGTH OF PORTLAND CEMENT BASED REPAIR MATERIALS TO CONCRETE", CEMENT, CONCRETE, AND AGGREGATES VOL. 11, NO. 1, (06/89).....	4677
MARTIN, J.W., "ACCELERATED VERSUS NATURAL WEATHERING OF COATINGS AND OTHER POLYMERIC MATERIALS: A STATE OF THE ART", PROCEEDINGS OF THE TNO SYMPOSIUM ON ACCELERATED VERSUS NATURAL WEATHERING OF COATINGS AND OTHERS, (06/89).....	4670
ROSSITER, W.J., SEILER, J.F., "RESULTS OF A SURVEY OF THE PERFORMANCE OF EPDM ROOFING AT ARMY FACILITIES", NIST INTERAGENCY REPORT 89-4085, (06/89).....	4667

MARTIN, J.W., "ACCELERATED VS. NATURAL WEATHERING OF COATINGS AND POLYMERIC MATERIALS: STATE-OF-THE-ART", NIST INTERAGENCY REPORT 89-4083, (06/89).....	4689
ROSSITER, W.J., SEILER, J.F., "INTERIM CRITERIA FOR MODIFIED BITUMEN", ROOFING/SIDING/INSULATION (RSI) JOURNAL VOL. 66, NO. 7, PP. 42 (07/89).....	4669
MARTIN, J.W., EMBREE, E.J., "STRENGTH REDUCTION OF EPDM SINGLE-PLY SEAM JOINTS DUE TO SURFACE CONTAMINANTS", JOURNAL MATERIALS IN CIVIL ENGINEERING VOL. 1, NO. 3, (08/89).....	4560
STRUBLE, L.J., JOHNSON, S.K., HARTMANN, M., KAETZEL, L.J., JENNINGS, H.M., "MANUAL FOR THE CEMENT HYDRATION SIMULATION MODEL", NIST TECHNICAL NOTE 1269, (08/89).....	4626
MCKNIGHT, M.E., MARTIN, J.W., "DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING AND CORROSION OF COATINGS ON STEEL USING INFRA-RED THERMOGRAPHY", JOURNAL COATINGS TECHNOLOGY VOL. 61, NO. 775, PP. 57, (08/89).....	4845
NGUYEN, T., LIN, C., "A MICROELECTRODE TECHNIQUE FOR MEASURING CHLORIDE ION IN COATING BLISTERS AND CORROSION POTENTIAL AT THE COATING/METAL INTERFACE", PROCEEDINGS OF THE AMERICAN CHEMICAL SOCIETY MEETING VOL. 61, PP. 728, (09/89).....	4623
ROSSITER, W.J., SEILER, J.F., STUTZMAN, P.E., "REPORT OF ROOF INSPECTIONS: CHARACTERIZATION OF NEWLY FABRICATED ADHESIVE-BONDED SEAMS AT AN ARMY FACILITY", NIST INTERAGENCY REPORT 89-4155, (09/89).....	4694
ROSSITER, W.J., "ROOFING PERFORMANCE: 9TH CONFERENCE ON ROOFING TECHNOLOGY", NIST JOURNAL OF RESEARCH VOL. 94, NO.5, (09/89).....	4632
GARBOCZI, E.J., "PERMEABILITY, DIFFUSIVITY, AND MICROSTRUCTURAL PARAMETERS: A CRITICAL REVIEW", CEMENT AND CONCRETE RESEARCH VOL. 20, NO. 4, PP.591-601, (09/89).....	4701
STRUBLE, L.J., KANARE, H., "COOPERATIVE CALIBRATION AND ANALYSIS OF CEMENT CLINKER PHASES", NIST INTERAGENCY REPORT 89-4164, (09/89).	4628
PIELERT, J.H., "ACTIVITIES OF CONSTRUCTION MATERIALS REFERENCE LABORATORIES RELATED TO LABORATORY ACCREDITATION", ACCREDITATION PRACTICES FOR INSPECTIONS, TESTS, AND LABORATORIES STP 1057, (09/89).....	4714
MATHEY, R.G., POMMERSHIEM, J.M., "SET TIME CONTROL STUDIES OF POLYMER CONCRETE", NIST INTERAGENCY REPORT 89-4026, (10/89).....	4561
MCKNIGHT, M.E., BYRD, W.E., ROBERTS, W.E., "METHODS FOR MEASURING LEAD CONCENTRATIONS IN PAINT FILMS", NIST INTERAGENCY REPORT 89-4209, (10/89).....	4707
TOKAR, M., REED, P., JAGANNATH, B., CLIFTON, J.R., "WORKSHOP ON CEMENT STABILIZATION OF LOW-LEVEL RADIO-ACTIVE WASTE", NIST INTERAGENCY REPORT 89-4178, (10/89).....	4691
STRUBLE, L.J., ROSSINGTON, D., "ABSORPTION OF HIGH-RANGE WATER-REDUCING AGENTS ON SELECTED PORTLAND CEMENT PHASES AND RELATED MATERIALS", NIST INTERAGENCY REPORT 89-4172, (10/89).....	4629

KAETZEL, L.J., CLIFTON, J.R., BENTZ, D.P., "INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS", PROCEEDINGS OF THE 3RD ANNUAL USERS PRL CONFERENCE, PP. 43-71, (11/89).....	4692
PHILLO, R.E., CLIFTON, J.R., "PORE STRUCTURE OF CONCRETE AND FREEZING VULNERABILITY OF HIGH-PERFORMANCE CONCRETE", NIST INTERAGENCY REPORT 89-4186, (11/89).....	4699
KNAB, L.I., SPRINKEL, M.M., LANE, O.J., "PRELIMINARY PERFORMANCE CRITERIA FOR THE BOND OF PORTLAND-CEMENT AND LATEX-MODIFIED CONCRETE OVERLAYS", NIST INTERAGENCY REPORT 89-4156, (11/89).....	4708
PIELERT, J.H., "CONSTRUCTION MATERIALS REFERENCE LABORATORIES AT NIST", ASTM STANDARDIZATION NEWS, PP. 40-44, (12/89).....	4204
KAETZEL, L.J., CLIFTON, J.R., BENTZ, D.P., "INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS", NIST INTERAGENCY REPORT 89-4206, (12/89).....	4716
PIELERT, J.H., "CONSTRUCTION MATERIALS REFERENCE LABORATORY AT NIST PROMOTING QUALITY IN LABORATORY TESTING", ASTM STANDARDIZATION NEWS, (12/89).....	4696
BYRD, W.E., MCKNIGHT, M.E., "POTENTIAL METHODS FOR MEASURING AND DETECTING LEAD IN EXISTING PAINT FILMS: A LITERATURE REVIEW", NIST INTERAGENCY REPORT 89-4205, (12/89).....	4710

ENVIRONMENT

TREADO, S.J., HOLLAND, D.B., BEAN, J.W., GILLETTE, G.L., "FENESTRATION DESIGN FOR BUILDING ATRIA", NBS INTERAGENCY REPORT 87-3594, (00/86).....	4181
RUBIN, A., "DESIGN FOR PRODUCTIVITY - END USER INVOLVEMENT", THE IMPACT OF THE WORK ENVIRONMENT ON PRODUCTIVITY, (00/86).....	4076
MCCABE, M.E., "PERIODIC HEAT CONDUCTION IN ENERGY STORAGE CYLINDERS WITH CHANGE OF PHASE", PROCEEDINGS AIAA/ASME HEAT TRANSFER CONFERENCE", (00/86).....	2943
HOWETT, G.L., "THE COMING REDEFINITION OF PHOTOMETRY", JOURNAL OF THE ILLUMINATING ENGINEERING SOCIETY VOL. 15, NO. 2, PP. 5-18 & 77, (00/86).....	974
RUBIN, A., "ERGONOMICS IN THE AUTOMATED OFFICE", THE CHANGING OFFICE WORKPLACE, (00/86).....	4077
MCNALL, P.E., "RATIONALE AND PLAN FOR CENTER FOR BUILDING TECHNOLOGY RESEARCH TO IMPROVE INDOOR AIR QUALITY", NBS INTERAGENCY REPORT 86-3305, (01/86).....	2899
RUDDER, F.F., YANIV, S.L., "GUIDELINES FOR THE PREVENTION OF TRAFFIC NOISE PROBLEMS", NBS INTERAGENCY REPORT 86-3311, (01/86).....	2706
DOMANSKI, P.A., "MODELING OF A HEAT PUMP CHARGED WITH A NONAZEOTROPIC REFRIGERANT MIXTURE", NBS TECHNICAL NOTE 1218, (01/86).....	2927
MULROY, W.J., "THE EFFECT OF SHORT CYCLING AND FAN DELAY ON THE EFFICIENCY OF A MODIFIED RESIDENTIAL HEAT PUMP", ASHRAE TRANSACTIONS VOL. 92, PART 1, (01/86).....	2912
PERSILY, A.K., "OUTLINE OF AN EXPERT SYSTEM APPROACH TO RESIDENTIAL AIR INFILTRATION", NBS INTERAGENCY REPORT 86-3323, (02/86).....	2897
WORTHEY, J.A., BRILL, M.H., "HEURISTIC ANALYSIS OF VON KRIES COLOR CONSTANCY", JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, (02/86)...	3022
BURCH, D.M., "EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR PREDICTING MOISTURE TRANSFER IN ATTICS", PROCEEDINGS OF THE 1985 MOISTURE AND HUMIDITY SYMPOSIUM, (02/86).....	2902
DOMANSKI, P.A., "RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING MODE", NBS INTERAGENCY REPORT 86-3301, (02/86).....	3134
PARK, C.K., CLARK, D.R., KELLY, G.E., "HVACSIM+ BUILDING SYSTEMS AND EQUIPMENT SIMULATION PROGRAM - BUILDING LOADS CALCULATION", NBS INTERAGENCY REPORT 86-3331, (02/86).....	3089
HOWETT, G.L., "LINEAR OPPONENT-COLORS MODEL OPTIMIZED FOR BRIGHTNESS PREDICTION", NBS INTERAGENCY REPORT 85-3202, (02/86).....	2811
BURCH, D.M., HARRJE, D.T., "A STATE-OF-THE-ART RESEARCH ASSESSMENT FOR RESIDENTIAL ATTIC CONDENSATION", PROCEEDINGS OF THE WORKSHOP ON MOISTURE CONTROL IN BUILDINGS, (02/86).....	2900

BURCH, D.M., SHOBACK, P.J., CAVANAUGH, K., "A HEAT TRANSFER ANALYSIS OF METAL FASTENERS IN LOW-SLOPE ROOFS", PROCEEDINGS OF SYMPOSIUM ON ROOFING AND STANDARDS DEVELOPMENT, (02/86).....	3024
VILLOT, M., BARTEL, T.W., YANIV, S.L., "UNCERTAINTIES IN THE CROSS-SPECTRAL METHOD FOR ACOUSTIC INTENSITY UNDER SEMI-REVERBERANT CONDITIONS", JOURNAL ON ACOUSTICAL SOCIETY OF AMERICA VOL. 79, PP. 691-701, (03/86).....	2704
PERSILY, A.K., GROT, R.A., "THE AIRTIGHTNESS OF OFFICE BUILDING ENVELOPES", ASHRAE/DOE/BTECC CONFERENCE ON THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES, P. 125, (03/86).....	3023
GREENBERG, J., "INITIAL TEST RESULTS AND TEST PLAN FOR DIFFERENTIAL TEMPERATURE CONTROLLERS USED IN SOLAR ENERGY SYSTEMS", NBS INTERAGENCY REPORT 86-3346, (03/86).....	3115
PEAVY, B., RENNEX, B.G., "SUMMARY OF CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES", PROCEEDINGS OF THE 19TH INTERNATIONAL THERMAL CONDUCTIVITY CONFERENCE, (03/86).....	3031
PEAVY, B., RENNEX, B.G., "CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES", JOURNAL OF THERMAL INSULATION", (04/86).....	3030
GOSS, W.P., MCCABE, M.E., "WINDOWS U-VALUES: RESEARCH NEEDS AND PLANS", PROCEEDINGS OF THE CONFERENCE ON THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDING III, (04/86).....	3036
FANG, J.B., "A COMPUTER PROGRAM FOR CALCULATING HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS", NBS INTERAGENCY REPORT 86-3367, (04/86).....	3028
FANNEY, A.H., DOUGHERTY, B.P., "A SELF-HEATED THERMISTOR FLOWMETER FOR FLOW MEASUREMENT IN A THERMOSYPHON SOLAR HOT WATER SYSTEM", PROCEEDINGS OF THE 8TH ANNUAL ASME SOLAR ENERGY DIVISION CONFERENCE, ANAHEIM, CALIFORNIA, (04/86).....	4096
MCCABE, M.E., "DIURNAL EFFECTIVENESS OF PHASE CHANGE ENERGY STORAGE CYLINDERS", PROCEEDINGS OF THE ASME SOLAR ENERGY DIVISION CONFERENCE, (04/86).....	4113
MAHAJAN, B.M., "INTER-ROOM AIR FLOW BY NATURAL CONVECTION VIA A DOORWAY OPENING", PROCEEDINGS OF THE 1986 ASME SOLAR ENERGY DIVISION CONFERENCE, (04/86).....	2929
DIDION, D.A., "RATING ELECTRIC HEAT PUMP PERFORMANCE", PROCEEDINGS OF THE EPRI CONFERENCE ON MEETING THE CUSTOMER NEEDS WITH HEAT PUMPS (04/86).....	4073
DIDION, D.A., "REFRIGERANT MIXTURES FOR HEAT PUMPS", EPRI CONFERENCE ON MEETING THE CUSTOMER NEEDS WITH HEAT PUMPS, (04/86).....	4072
GALOWIN, L.S., SWAFFIELD, J.A., "COMPUTER DESIGN PROCEDURES - INTRODUCTION FOR ACCEPTANCE IN THE REGULATORY PROCESS", PROCEEDINGS OF THE WATER SUPPLY AND DRAINAGE SEMINAR, (05/86)....	3109

BURCH, D.M., WALTON, G.N., CAVANAUGH, K., LICITRA, B.A., "EFFECT OF INTERIOR MASS SURFACES ON SPACE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE", NBS INTERAGENCY REPORT 86-3377, (05/86).....	3021
HILL, D.D., MAHAJAN, B.M., "CONVECTION BETWEEN ZONES WITH NON-LINEAR TEMPERATURE DISTRIBUTIONS", PROCEEDINGS OF THE AIR MOVEMENT AND DISTRIBUTION CONFERENCE, (05/86).....	3123
FANNEY, A.H., KLEIN, S.A., "THERMAL PERFORMANCE COMPARISONS FOR SOLAR HOT WATER SYSTEMS SUBJECTED TO VARIOUS COLLECTOR AND HEAT EXCHANGER FLOW RATES", SOLAR ENERGY JOURNAL VOL. 40, NO. 1, PP 1-11, 1988, (05/86).....	3112
BURCH, D.M., WALTON, G.N., CAVANAUGH, K., LICITRA, B.A., "THE EFFECT OF INTERIOR MASS SURFACES ON THE SPACE HEATING AND COOLING LOAD OF A SINGLE-FAMILY RESIDENCE", PROCEEDINGS OF ASHRAE/DOE/BTECC CONFERENCE ON THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS III, (05/86).....	3039
FANG, J.B., "MINIMUM LIFE CYCLE COST HEAT LOSSES FOR SHALLOW TRENCH UNDERGROUND HEAT DISTRIBUTION SYSTEMS", NBS INTERAGENCY REPORT 86-3381, (05/86).....	3034
NORFORD, L.K., RABL, A., SOCOLOW, R.H., PERSILY, A.K., "MEASUREMENT OF THERMAL CHARACTERISTICS OF TWO OFFICE BUILDINGS", PROCEEDINGS OF THE ASHRAE/DOE/BTECC CONFERENCE ON THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS, III, P. 272, (06/86).....	3029
AXLEY, J.W., "BUILDING ENERGY SIMULATION USING ASSEMBLAGES OF DISCRETE THERMAL ELEMENTS", PROCEEDINGS OF THE 11TH NATIONAL PASSIVE SOLAR CONFERENCE, (06/86).....	4303
PORTER, L.G., "FINAL EVALUATION OF A COLOR CALIBRATOR FOR A RADAR REMOTE WEATHER DISPLAY SYSTEM", NBS INTERAGENCY REPORT 86-3403 (06/86).....	3040
KWELLER, E., "COMBUSTION TESTING METHODS FOR CATALYTIC SPACE HEATERS", ASHRAE TRANSACTIONS, (06/86).....	3107
DIKKERS, R.D., "DOE/NBS FORUM ON TESTING AND RATING PROCEDURES FOR CONSUMER PRODUCTS", NBS INTERAGENCY REPORT 86-3412, (06/86).....	3118
ZARR, R.R., BURCH, D.M., FAISON, T.K., ARNOLD, C.E., "THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED AND SUPER INSULATED RESIDENTIAL WALLS USING A CALIBRATED HOT BOX", ASHRAE TRANSACTIONS VOL. 92, PART 2, (06/86).....	3026
LIU, S.T., "EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT FLUX DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE", NBS INTERAGENCY REPORT 84-3378, (06/86).....	3106
MCNALL, P.E., "CONTROL OF INDOOR AIR QUALITY BY MEANS OF HVAC SYSTEMS", IAQ '86, MANAGING INDOOR AIR FOR HEALTH AND ENERGY CONSERVATION ASHRAE SPECIAL PUBLICATION, (06/86).....	3042

DANNER, W.F., "TOWARD MODULAR SEMANTIC APPLICATION LAYER PROTOCOLS (MS-ALPS): COMMUNICATION BETWEEN HETEROGENEOUS INFORMATION SYSTEMS USING ARTIFICIAL INTELLIGENCE PROGRAMMING TECHNOLOGY", PROCEEDINGS OF THE DISTRIBUTED INFORMATION SYSTEMS: EMERGING USES AND TECHNOLOGY, 25TH ANNUAL TECHNICAL SYMPOSIUM, (06/86).....	3105
WISE, R.A., KWELLER, E.R., "PART LOAD SEASONAL EFFICIENCY TEST PROCEDURE EVALUATION OF FURNACE CYCLE CONTROLLERS", ASHRAE TRANSACTIONS, (06/86).....	3120
CHANG, Y.M., GROT, R.A., "PERFORMANCE MEASUREMENTS OF INFRARED IMAGING SYSTEMS USED TO ASSESS THERMAL ANOMALIES", PROCEEDINGS OF THERMAL IMAGING CONFERENCE", (06/86).....	3035
BURCH, D.M., WALTON, G.N., LICITRA, B.A., CAVANAUGH, K., "COMPARISON OF MEASURED AND PREDICTED SENSIBLE HEATING AND COOLING LOADS FOR SIX TEST BUILDINGS", NBS INTERAGENCY REPORT 86-3399, (06/86).....	3025
MCNALL, P.E., "CONTROLLING AIR QUALITY IN OFFICE BUILDINGS", ARCHITECTURAL TECHNOLOGY, (07/86).....	3041
WALTON, G.N., "ESTIMATING INTERROOM CONTAMINANT MOVEMENT", THE FIFTH INTERNATIONAL SYMPOSIUM ON THE USE OF COMPUTERS FOR ENVIRONMENTAL ENGINEERING RELATED TO BUILDINGS, (07/86).....	4431
WALTON, G.N., "MODELLING WINDOW OPTICS FOR BUILDING ENERGY ANALYSIS", NBS INTERAGENCY REPORT 86-3426, (07/86).....	3033
COLLINS, B.L., "SAFETY COLOR APPEARANCE UNDER DIFFERENT ILLUMINANTS", JOURNAL OF THE ILLUMINATION ENGINEERING SOCIETY, (07/86).....	4154
ZARR, R.R., BURCH, D.M., FAISON, T.K., ARNOLD, C.E., "THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED WALL USING A CALIBRATED HOT BOX", JOURNAL OF THERMAL INSULATION VOL. 10, PP. 54, (07/86).....	4192
COLLINS, B.L., "VISUAL ASSESSMENT OF HOLOGRAMS", NBS INTERAGENCY REPORT 86-3409, (07/86).....	3037
MAHAJAN, B.M., "MEASUREMENT OF INTERZONAL HEAT AND MASS TRANSFER BY NATURAL CONVECTION", SOLAR ENERGY VOL. 38, NO. 6, P. 437, (08/86).....	4106
FANNEY, A.H., KLEIN, S.A., "COMPARISON OF EXPERIMENTAL AND CALCULATED PERFORMANCE OF INTEGRAL COLLECTOR-STORAGE SOLAR WATER HEATERS", SOLAR ENERGY JOURNAL VOL. 38, NO. 5, PP 303-309, 1987, (08/86)...	3117
MORRISON, G., MCLINDEN, M.O., "APPLICATION OF A HARD-SPHERE EQUATION OF STATE TO REFRIGERANTS AND REFRIGERANT MIXTURES", NBS TECHNICAL NOTE 1226, (08/86).....	3122
RUBIN, A.I., "REVISED INTERIM DESIGN GUIDELINE FOR AUTOMATED OFFICES", NBS INTERAGENCY REPORT 86-3430, (08/86).....	3038
MULROY, W.J., DIDION, D.A., "THE PERFORMANCE OF A CONVENTIONAL RESIDENTIAL SIZED HEAT PUMP OPERATING WITH A NONAZEOTROPIC BINARY REFRIGERANT MIXTURE", NBS INTERAGENCY REPORT 86-3422, (08/86)....	3121

DOMANSKI, P.A., DIDION, D.A., "A SENSITIVITY STUDY OF THE REFRIGERANT PROPERTY UNCERTAINTIES ON THE VAPOR COMPRESSSION CYCLE", PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON HEAT AND MASS TRANSFER IN CYROENGINEERING & REFRIGERATION, DUBROVNIK, YUGOSLAVIA, (09/86)..	4216
PARK, C., CLARK, D.R., KELLY, G.E., "DYNAMIC SIMULATION OF WHOLE BUILDING SYSTEMS", PROCEEDINGS OF THE CIB 1986 CONFERENCE, (09/86).....	3114
BURCH, D.M., WALTON, G.N., LICITRA, B.A., CAVANAUGH, K., KLEIN, M.D., "EFFECT OF WALL MASS ON PEAK SPACE SENSIBLE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE", "NBS INTERAGENCY REPORT 86-3458, (09/86).....	3027
MCCABE, M.E., HILL, D.D., "FIELD MEASUREMENT OF THERMAL AND SOLAR/OPTICAL PROPERTIES OF INSULATING GLASS WINDOWS", ASHRAE TRANSACTION VOL. 93, PT. 1, (09/86).....	4156
GALOWIN, L.S., KONEN, T., YINGLING, R., "CODE REQUIREMENTS IN PLUMBING ENGINEERING FOR DWELLING WITH ACCEPTANCE OF WATER CONSERVATION", PROCEEDINGS OF THE CIB 86 CONFERENCE, (09/86).....	3108
WALTON, G.N., "ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS", NBS INTERAGENCY REPORT 86-3463, (10/86).....	4153
PERSILY, A.K., "SPECIFICATIONS FOR THERMAL AND ENVIRONMENTAL EVALUATIONS OF ADVANCED-TECHNOLOGY OFFICE BUILDINGS", NBS INTERAGENCY REPORT 86-3462, (10/86).....	4151
PALMER, M.E., "THE CURRENT ABILITY OF THE ARCHITECTURE, ENGINEERING, AND CONSTRUCTION INDUSTRY TO EXCHANGE CAD DATA SETS DIGITALLY", NBS INTERAGENCY REPORT 86-3476, (10/86).....	4128
PERSILY, A.K., "VENTILATION EFFECTIVENESS MEASUREMENTS IN AN OFFICE BUILDING", PROCEEDINGS OF THE ASHRAE IAQ '86 CONFERENCE, P. 548, (10/86).....	4155
TREADO, S., GILLETTE, G., "THE DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA", PROCEEDINGS OF INTERNATIONAL DAYLIGHTING CONFERENCE, (11/86).....	4074
ROSS, H.D., "AN INVESTIGATION OF HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS", NBS INTERAGENCY REPORT 86-3450, (11/86).....	4127
TREADO, S.J., HOLLAND, D.B., "FENESTRATION DESIGN FOR OFFICE AND RESIDENTIAL BUILDINGS", NBS INTERAGENCY REPORT 86-3489, (12/86)..	4152
MORRISON, G., MCLINDEN, M.O., "APPLICATION OF THE CARNAHAN-STARLING-DeSANTIS EQUATION OF STATE TO MIXTURES OF REFRIGERANTS", PROCEEDINGS, ASME WINTER ANNUAL MEETING '86-WA/HT-59, (12/86).....	4147
MAHAJAN, B.M., HILL, D.D., "INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURE CONFIGURATIONS", PROCEEDINGS OF THE ASME WINTER ANNUAL MEETING '86-WA/SOL-1, (12/86).....	3119
DOMANSKI, P.A., DIDION, D.A., "IMPACT OF REFRIGERANT PROPERTY UNCERTAINTIES ON PREDICTION OF VAPOR COMPRESSION CYCLE PERFORMANCE, NBS INTERAGENCY REPORT 86-3373, (12/86).....	3113

RUBIN, A., "THE DESIGN PROCESS FOR INTELLIGENT BUILDINGS", ERGODESIGN 86, (00/87).....	4078
PERSILY, A.P., GROT, R.A., FANG, J.B., CHANG, Y.M., "DIAGNOSTIC TECHNIQUES FOR EVALUATING OFFICE BUILDING ENVELOPES", ASHRAE TRANSACTIONS VOL. 94, PART 1, (01/87).....	4240
FENVES, S.J., SLAVA, M.T., BARNETT, J.P., "SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION PROGRAM: USER MANUAL', NBS INTERAGENCY REPORT 87-3514, (01/87).....	4116
COLLINS, B.L., KUO, B.Y., HOWETT, G.L., MAYERSON, S.E., WORTHEY, J.A., "SAFETY COLOR APPEARANCE UNDER SELECTED LIGHT SOURCES" NBS INTERAGENCY REPORT 86-3493, (01/87).....	4158
WALTON, G.N., "ESTIMATING 3-D HEAT LOSS FROM RECTANGULAR BASEMENTS AND SLABS USING 2-D CALCULATIONS", ASHRAE TRANSACTIONS VOL. 93, PART 1, (01/87).....	4149
MULROY, W.J., "EVALUATION OF A STANDARD DEVICE FOR CALIBRATING CALORIMETER TEST ROOMS", NBS INTERAGENCY REPORT 86-3465, (01/87).	4180
RUBIN, A.I., "DESIGN OF OFFICE MUST ENTER INTO AUTOMATION PLANNING", GOVERNMENT COMPUTER NEWS, (02/87).....	4079
FANNEY, A.H., DOUGHERTY, B.P., "MEASUREMENT OF BUOYANCY - INDUCED FLOW USING A SELF-HEATED THERMISTOR FLOWMETER", ASME JOURNAL OF SOLAR ENERGY ENGINEERING VOL. 109, PP. 34-39, 2/87, (02/87).....	4097
MAHAJAN, B.M., "MEASUREMENT OF AIR VELOCITY COMPONENT OF NATURAL CONVECTIVE INTERZONAL AIR-FLOW", ASME JOURNAL OF SOLAR ENERGY ENGINEERING VOL. 109, P. 267, (02/87).....	4250
MAHAJAN, B.M., HILL, D.D., "FLOW COEFFICIENTS FOR INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES", 1987 ASME SOLAR ENERGY DIVISION CONFERENCE, (03/87).....	4125
KAO, J.Y., MULROY, W.J., DIDION, D.A., "FIELD PERFORMANCE OF THREE RESIDENTIAL HEAT PUMPS IN THE HEATING MODE", NBS INTERAGENCY REPORT 87-3528, (03/87).....	4148
DANNER, W.F., "THE USE OF ARTIFICIAL INTELLIGENCE PROGRAMMING TECHNIQUES FOR COMMUNICATION BETWEEN INCOMPATIBLE BUILDING INFORMATION SYSTEMS", NBS INTERAGENCY REPORT 87-3529, (03/87)....	4146
WORTHEY, J.A., "GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS", NBS INTERAGENCY REPORT 87-3525, (03/87).....	4157
LIU, S.T., "EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT FLUX DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE", PROCEEDINGS OF THE ASME-JSME-JSES SOLAR ENERGY CONFERENCE, (03/87).....	4075
FENVES, S.J., WRIGHT, R.N., REED, K.A., STAHL, F.I., "INTRODUCTION TO SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION", NBS INTERAGENCY REPORT 87-3513, (04/87).....	4132
DIKKERS, R.D., "STANDARDS FOR SELECTING CORRECTIONAL FACILITY PRODUCTS AND SYSTEMS", CORRECTIONS TODAY, AMERICAN CORRECTIONAL ASSOCIATION, (04/87).....	4176

COLLINS, B.L., "COLOR AND LIGHTING", ILLUMINATING ENGINEERING SOCIETY, LIGHTING DESIGN AND APPLICATION, (04/87).....	4179
ZARR, R.R., BURCH, D.M., FAISON, T.K., ARNOLD, C.E., O'CONNELL, M.E., "CALIBRATION OF THE NBS CALIBRATED HOT BOX", JOURNAL OF TESTING AND EVALUATION, (05/87).....	2840
MCCABE, M.E., "FIELD MEASUREMENTS OF HEAT FLOW THROUGH WINDOWS", PROCEEDINGS OF ICBEM CONFERENCE, (05/87).....	4214
HARRIS, J.E., "PERFORMANCE OF INSTANTANEOUS GAS-FIRED WATER HEATERS", NBS INTERAGENCY REPORT 87-3537, (05/87).....	4215
ROSS, H., RADERMACHER, R., DI MARZO, M., DIDION, D.A., "HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS", INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER VOL. 30, NO. 5, PP. 979-992, (05/87).....	4407
MCCABE, M.E., GOSS, W., "INTERIM PROCEDURE TO MEASURE THE THERMAL PERFORMANCE OF WINDOW SYSTEMS", NBS INTERAGENCY REPORT 87-3569, (06/87).....	4212
PERSILY, A.K., NORFORD, L.K., "SIMULTANEOUS MEASUREMENTS OF INFILTRATION AND INTAKE IN AN OFFICE BUILDING", ASHRAE TRANSACTIONS VOL. 93, PART 2, (06/87).....	4213
BURCH, D.M., ZARR, R.R., FAISON, T.K., LICITRA, B.A., ARNOLD, C.E., "A PROCEDURE FOR MEASURING THE DYNAMIC THERMAL PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX", ASHRAE TRANSACTIONS (06/87).....	4437
REED, K.A., "WHAT COMES AFTER IGES", PROCEEDINGS OF THE SPRING 1987 NATIONAL SOCIETY FOR COMPUTER APPLICATIONS IN ENGINEERING, PLANNING AND ARCHITECTURE, INC. (06/87).....	4293
TSAROS, T., GAGGIOLI, R., DOMANSKI, P.A., "ENERGY ANALYSIS OF HEAT PUMPS", ASHRAE TRANSACTIONS, PART 2, PP. 1781-1797, (06/87).....	4438
LUI, S.T., "TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION", PROCEEDINGS OF THE ASHRAE SYMPOSIUM ON 'WINDOW U-VALUE MEASUREMENTS', (07/87).....	4133
WALTON, G.N., "ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS", PROCEEDINGS OF 1987 ASME/AICHE JOINT HEAT TRANSFER CONFERENCE, (07/87).....	4219
RUBIN, A.I., COLLINS, B.L., "INTERIM SURVEY OF SELECTED MILITARY BUILDING ENVIRONMENT: A RESEARCH APPROACH", NBS INTERAGENCY REPORT 87-3606, (08/87).....	4236
WALTON, G.N., PETERSEN, S.R., "THERMAL AND ECONOMIC ANALYSIS OF THREE HVAC SYSTEM TYPES IN A TYPICAL VA PATIENT FACILITY", NBS INTERAGENCY REPORT 87-3619, (08/87).....	4237
PERSILY, A.K., TURNER, W., BURGE, H., GROT, R.A., "INVESTIGATION OF A WASHINGTON DC OFFICE BUILDING", PROCEEDINGS OF ASTM SYMPOSIUM ON DESIGN AND PROTOCOL FOR MONITORING INDOOR AIR QUALITY, (08/87)...	4232
TREADO, S.J., GILLETTE, G.L., "THE DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA", PROCEEDINGS OF THE 2ND INTERNATIONAL DAYLIGHTING CONFERENCE, (09/87).....	4238

PERSILY, A.K., "AN EXPERT SYSTEM FOR DIAGNOSING AIR LEAKAGE AND MOISTURE PROBLEMS IN BUILDINGS", PROCEEDINGS OF THE BTECC SYMPOSIUM ON AIR INFILTRATION, VENTILATION AND MOISTURE TRANSFER (09/87).....	4270
GROT, R.A., AXLEY, J.W., "THE DEVELOPMENT OF MODELS FOR PREDICTION OF INDOOR AIR QUALITY IN BUILDINGS", PROCEEDINGS OF THE 8TH AIVC CONFERENCE, (09/87).....	4297
BURCH, D.M., LICITRA, B.A., "THE EFFECT OF WALL MASS ON THE ANNUAL SPACE HEATING AND COOLING LOADS OF RESIDENCES", PROCEEDINGS OF INTERNATIONAL CONGRESS ON BUILDING ENERGY MANAGEMENT, (10/87)....	4218
TREADO, S.J., "EXPERIMENTAL PLAN FOR INVESTIGATION OF LIGHTING AND HVAC INTERACTIONS", NBS INTERAGENCY REPORT 87-3656, (10/87)..	4269
MAHAJAN, B.M., "A METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS CONTAMINANT REMOVAL DEVICES", NBS INTERAGENCY REPORT 87-3666, (11/87).....	4260
MCLINDEN, M.O., RADERMACHER, R., "METHODS FOR COMPARING THE PERFORMANCE OF PURE AND MIXED REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE", INTERNATIONAL JOURNAL OF REFRIGERATION VOL. 10, PP. 319-325, (11/87).....	4210
REED, K.A., "APPLYING EXPERT SYSTEMS TO BUILDING STANDARDS", BUILDING DESIGN AND CONSTRUCTION MAGAZINE, (11/87).....	4285
WORTHEY, J.A., "LIGHTING FOR COLOR VISION", PROCEEDINGS OF SPIE 1987 CAMBRIDGE SYMPOSIUM ON ADVANCES IN INTELLIGENT ROBOTICS SYSTEMS, (11/87).....	4266
FANG, J.B., "CALCULATIONS OF MAXIMUM ALLOWABLE HEAT LOSSES FOR VARIOUS SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS", NBS INTERAGENCY REPORT 87-3617, (11/87).....	4230
DIKKERS, R.D., REEDER, B.C., "STANDARDS FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES", NBS INTERAGENCY REPORT 87-3687, (11/87).....	4392
AXLEY, J.W., "THE NBS MULTI-ZONE IAQ MODEL", PROCEEDINGS OF ANNUAL MEETING OF PNWIS APCA, (11/87).....	4455
MCLINDEN, M.O., DIDION, D.A., "CFC'S - QUEST FOR ALTERNATIVES", ASHRAE JOURNAL VOL. 29, NO. 12, PP.32-42, (12/87).....	4292
MAHAJAN, B.M., "INVESTIGATION OF INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES, PROCEEDINGS OF 9TH BRAZILIAN CONGRESS ON MECHANICAL ENGINEERING, (12/87).....	4211
RUBIN, A.I., "OFFICE DESIGN MEASUREMENTS FOR PRODUCTIVITY - A RESEARCH OVERVIEW", NBS INTERAGENCY REPORT 87-3688, (12/87).....	4433
RENNEX, B.R., SOMERS, T.A., FAISON, T.K., ZARR, R.R., "EVALUATION OF FUMED-SILICA INSULATION FOR A THERMAL CONDUCTIVITY STANDARD REFERENCE MATERIAL", INSULATION MATERIALS TESTING AND APPLICATIONS (ASTM STP), (12/87).....	4468
KEDZIERSKI, M.A., WEBB, R.L., "EXPERIMENTAL MEASUREMENTS OF CONDENSATION ON VERTICAL PLATES WITH ENHANCED FINS", BOILING AND CONDENSATION IN HEAT TRANSFER EQUIPMENT, PP 87-95, (12/87).....	4403

BURCH, D.M., ZARR, R.R., LICITRA, B.A., "A METHOD FOR CHARACTERIZING THE DYNAMIC PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX", ASHRAE TRANSACTIONS VOL. 94, PART 1, (00/88).....	4220
GILLETTE, G.L., TREADO, S.J., "THE DAYLIGHTING AND THERMAL PERFORMANCE OF ROOF GLAZING IN ATRIUM SPACES", ASHRAE TRANSACTIONS VOL. 94, PART 1, (00/88).....	4458
WORTHEY, J.A., "EFFECT OF VEILING REFLECTIONS ON VISION OF COLORED OBJECTS", JOURNAL OF ILLUMINATING ENGINEERING SOCIETY, (00/88)...	4396
PALMER, M.E., :STRATEGIES FOR IMPLEMENTING IGES (INITIAL GRAPHICS EXCHANGE SPECIFICATION) FOR THE OPERATIONS OF NAVFAC (NAVAL FACILITIES ENGINEERING COMMAND), NBS INTERAGENCY REPORT 88-3693, (01/88).....	4234
CLARK, D.R., KELLY, G.E., "POST: PLANT OPERATIONS SIMULATION TEMPLATE", ASHRAE TRANSACTIONS VOL. 94, PART 1, (01/88).....	4166
MAHAJAN, B.M., "ENERGY RATING OF REFRIGERATORS WITH VARIABLE DEFROST CONTROLS", ASHRAE TRANSACTIONS VOL. 94, PART 1, NO. 3133, (01/88).....	4263
LIU, S.T., KELLY, G.E., "KNOWLEDGE-BASED FRONT-END INPUT GENERATING PROGRAM FOR BUILDING SYSTEM SIMULATION", ASHRAE TRANSACTIONS VOL. 94, PART 1, (01/88).....	4440
MULROY, W.J., WARD, D.K., "CAPACITY AND OVERLOAD TESTS OF A 7-1/2 TON PACKAGE UNIT AIR CONDITIONER", NBS INTERAGENCY REPORT 88-3723, (01/88).....	4395
BURCH, D.B., LICITRA, B.A., ZARR, R.R., "A COMPARISON OF TWO TEST METHODS FOR DETERMINING TRANSFER FUNCTION COEFFICIENTS FOR A WALL USING A CALIBRATED HOT BOX", ASME JOURNAL OF HEAT TRANSFER, (02/88).....	4339
PERSILY, A.K., "TRACER GAS TECHNIQUES FOR STUDYING BUILDING AIR EXCHANGE", NBS INTERAGENCY REPORT 88-3708, (02/88).....	4457
SILBERSTEIN, S., "COMPARISON OF CHROMOTROPIC ACID, PARAROSANILINE, AND GRAVIMETRIC FORMALDEHYDE DETERMINATIONS", NBS INTERAGENCY REPORT 88-3716, (02/88).....	4429
KELLY, G.E., CLARK, D.R., "USERS GUIDE TO POST - PLANT OPERATIONS SIMULATION TEMPLATE", NBS INTERAGENCY REPORT 88-3740, (03/88)....	4340
DIDION, D.A., "SEASONAL PERFORMANCE EVALUATION PROCEDURES FOR DOMESTIC ELECTRIC DRIVEN HEAT PUMPS AND AIR CONDITIONERS", PROCEEDINGS OF THE 1988 ANNUAL MEETING OF THE JAPANESE ASSOCIATION OF REFRIGERATION, (03/88).....	4548
BUSHBY, S.T., KELLY, G.E., "COMPARISON OF DIRECT DIGITAL CONTROL AND PNEUMATIC CONTROL SYSTEMS IN A LARGE OFFICE BUILDING", NBS INTERAGENCY REPORT 88-3739, (03/88).....	4406
KAO, J.Y., WARD, D.B., KELLY, G.E., "FLAME ROLL-OUT STUDY FOR GAS FIRED WATER HEATERS", NBS INTERAGENCY REPORT 88-3724, (03/88)....	4405
DANNER, W.F., "A GLOBAL MODEL FOR BUILDING-PROJECT INFORMATION: ANALYSIS OF CONCEPTUAL STRUCTURES", NBS INTERAGENCY REPORT 88-3754, (04/88).....	4294

SILBERSTEIN, S., "PREDICTING FORMALDEHYDE CONCENTRATIONS IN MANUFACTURED HOUSING RESULTING FROM MEDIUM-DENSITY FIBERBOARD", NBS INTERAGENCY REPORT 88-3761, (04/88).....	4430
DIKKERS, R.D., "STANDARDS FOR BUILDING MATERIALS, EQUIPMENT, AND SYSTEMS", AMERICAN JAILS VOL. II, NO. 1, (04/88).....	4427
MULROY, W.J., KAUFFELD, M., MCLINDEN, M.O., DIDION, D.A., "EXPERIMENTAL EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD AIR CONDITIONER", PROCEEDINGS OF THE DOE/ORNL HEAT PUMP CONFERENCE, (04/88).....	4397
DOMANSKI, P.A., "RECOMMENDED PROCEDURE FOR RATING AND TESTING OF VARIABLE SPEED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS", NBS INTERAGENCY REPORT 88-3781, (05/88).....	4389
MCLINDEN, M.O., "THERMODYNAMIC EVALUATION OF REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE USING REDUCED PROPERTIES", INTERNATIONAL JOURNAL OF REFRIGERATION VOL. II, PP. 134-143, (05/88).....	4435
MULROY, W.J., WEBER, S., DIDION, D.A., "REVISED UNITARY HEAT PUMP SPECIFICATION FOR MILITARY FAMILY HOUSING", NBS INTERAGENCY REPORT 88-3805, (06/88).....	4400
SMITH, B., RINAUDOT, G.R., REED, K.A., WRIGHT, T., "INITIAL GRAPHICS EXCHANGE SPECIFICATION (IGES) VERSION 4.0", NBS INTERAGENCY REPORT 88-3813, (06/88).....	4456
LIU, S.T., "TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION", ASHRAE TRANSACTIONS VOL. 94, PART 2, (06/88).....	4439
BUSHBY, S.T., "APPLICATION LAYER COMMUNICATION PROTOCOLS FOR BUILDING ENERGY MANAGEMENT AND CONTROL SYSTEMS", ASHRAE TRANSACTIONS VOL. 94, PART 2, (06/88).....	4401
WORTHEY, J.A., "LIGHTS OF NEW YORK HARBOR", NBS INTERAGENCY REPORT 88-3807, (06/88).....	4465
BURCH, D.M., FANNEY, A.H., LICITRA, B.A., "A SIMPLIFIED MODEL FOR PREDICTING CUMULATIVE SENSIBLE COOLING LOADS", ASHRAE TRANSACTIONS VOL. 94, PART II, (07/88).....	4265
MCLINDEN, M.O., "WORKING FLUID SELECTION FOR SPACE-BASED TWO-PHASE HEAT TRANSPORT SYSTEMS", NBS INTERAGENCY REPORT 88-3812, (07/88).	4398
PERSILY, A.K., DOLS, W.S., GROT, R.A., "AIR EXCHANGE AND POLLUTANT CONCENTRATION MEASUREMENTS IN TWO OFFICE BUILDINGS", PROCEEDINGS AT CIB CONFERENCE HEALTHY BUILDINGS '88, STOCKHOLM, SWEDEN, (07/88).....	4418
PETERSEN, S.R., FANNEY, A.H., "TECHNICAL AND ECONOMIC ANALYSIS OF CFC-BLOWN INSULATIONS AND SUBSTITUTES FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION", NBS INTERAGENCY REPORT 88-3829, (07/88).....	4616
AXLEY, J.W., "PROGRESS TOWARD A GENERAL ANALYTICAL METHOD FOR PREDICTING INDOOR AIR POLLUTION IN BUILDINGS - INDOOR AIR QUALITY MODELING PHASE III REPORT", NBS INTERAGENCY REPORT 88-3814, (07/88).....	4391

RUBIN, A.I., COLLINS, B.L., "EVALUATION OF THE WORKING ENVIRONMENT AT SELECTED U.S. ARMY FIELD STATIONS; SUGGESTIONS FOR IMPROVEMENT NBS INTERAGENCY REPORT 88-3827, (07/88).....	4464
MULROY, W.J., KAUFFELD, M., MCLINDEN, M.O., DIDION, D.A., "AN EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD AIR CONDITIONER", PROCEEDINGS OF THE IIR 1988 CONFERENCE, PROGRESS IN THE DESIGN AND CONSTRUCTION OF REFRIGERATION SYSTEMS, (07/88)....	4503
AXLEY, J.W., "MULTI-ZONE DISPERSAL ANALYSIS BY ELEMENT ASSEMBLY", BUILDING AND ENVIRONMENT JOURNAL, (07/88).....	4386
DOMANSKI, P.A., "RATING OF MIXED SPLIT RESIDENTIAL AIR CONDITIONERS", FIFTH ANNUAL SYMPOSIUM ON IMPROVING BUILDING ENERGY EFFICIENCY IN HOT AND HUMID CLIMATES, (08/88).....	4384
ZARR, R.R., SOMERS, T.A., EBBERTS, D.F., "ROOM-TEMPERATURE THERMAL CONDUCTIVITY MEASUREMENTS OF FUMED-SILICA INSULATION FOR A STANDARD REFERENCE MATERIAL", NBS INTERAGENCY REPORT 88-1247, (08/88).....	4414
JUNG, D.S., "HORIZONTAL FLOW BOILING HEAT TRANSFER USING REFRIGERANTS MIXTURES", INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER VOL. 32, NO. 1, PP. 131-145, (08/88).....	4483
DANNER, W.F., "CONCEPTUAL STRUCTURES FOR MODELING BUILDING INFORMATION", PROCEEDINGS OF SYMPOSIUM ON KNOWLEDGE-BASED DESIGN IN ARCHITECTURE, HELSINKI, FINLAND 8/15-16/88, (09/88).....	4416
MORRISON, G., MCLINDEN, M.O., "MODELLING REFRIGERANT MIXTURES WITH HARD-SPHERE EQUATIONS OF STATE", AICHE JOURNAL, (09/88).....	4387
TREADO, S.J., "ILLUMINATION CONDITIONS AND TASK VISIBILITY IN DAYLIT SPACES", NIST INTERAGENCY REPORT 88-4914, (10/88).....	4267
KELLY, G.E., "CONTROL SYSTEM SIMULATION IN NORTH AMERICA", ENERGY AND BUILDINGS VOL. 10, PP. 193-202, (10/88).....	4191
AXLEY, J.W., PERSILY, A.K., "INTEGRAL MASS BALANCES AND PULSE INJECTION TRACER TECHNIQUES", NIST INTERAGENCY REPORT 88-3855, (10/88).....	4447
TREADO, S.J., BEAN, J.W., "THE INTERACTION OF LIGHTING, HEATING, AND COOLING SYSTEMS IN BUILDINGS - INTERIM REPORT", NIST INTERAGENCY REPORT 88-3860, (10/88).....	4459
COLLINS, B.L. RUBIN, A.I., "ANALYSIS OF ENVIRONMENTAL DATA FROM THREE ARMY FIELD STATIONS", NIST INTERAGENCY REPORT 88-3871, (10/88)...	4477
ZARR, R.R., SOMERS, T.A., "ROOM-TEMPERATURE THERMAL RESISTANCE MEASUREMENTS OF NEW AND EXISTING MATERIALS FOR SHIPBOARD AIR DUCT SYSTEMS", NIST INTERAGENCY REPORT 88-3861, (10/88).....	4463
AXLEY, J.W., "A DISCRETE THERMAL ANALYSIS METHOD FOR BUILDING ENERGY SIMULATION PART 1 LINEAR THERMAL SYSTEMS WITH DTAM1 USERS MANUAL", NIST INTERAGENCY REPORT 88-3868, (11/88).....	4419
JUNG, D.S., MCLINDEN, M.O., RADERMACHER, R., "MEASUREMENT TECHNIQUES FOR HORIZONTAL FLOW BOILING HEAT TRANSFER WITH PURE AND MIXED REFRIGERANTS", EXPERIMENTAL HEAT TRANSFER, (11/88).....	4444

FANG, J.B., GROT, R.A., KURABUCHI, T., "APPLICATION OF MATHEMATICAL MODELING TO THE EVALUATION OF BUILDING VENTILATION SYSTEMS", PROCEEDINGS OF 9TH AIR INFILTRATION AND VENTILATION CENTRE CONFERENCE, (11/88).....	4535
SILBERSTEIN, S., GROT, R.A., ISHIGURO, K., MULLIGAN, J.L., "VALIDATION OF MODELS FOR PREDICTING FORMALDEHYDE CONCENTRATIONS IN RESIDENCES DUE TO PRESSED-WOOD PRODUCTS", APCA JOURNAL VOL. 38, NO. 11, PP. 1403-1411, (11/88).....	4620
COLLINS, B.L., "EVALUATION OF COLORS FOR HIGHWAY APPLICATIONS", NIST INTERAGENCY REPORT 88-3894, (11/88).....	4478
DOUGHERTY, B.P., THOMAS, W.C., "THERMOPHYSICAL PROPERTY MEASUREMENT IN BUILDING INSULATION MATERIALS USING A SPHERICALLY-SHAPED, SELF-HEATED PROBE", THERMAL CONDUCTIVITY 20, (12/88).....	4542
WORTHEY, J.A., "LIGHTING QUALITY AND LIGHT SOURCE SIZE", LIGHTING DESIGN AND APPLICATION, (00/89).....	4565
PERSILY, A.K., "VENTILATION RATES IN OFFICE BUILDINGS", ASHRAE IAQ 89, (00/89).....	4563
AARON, D.A., DOMANSKI, P.A., "EXPERIMENTAL INVESTIGATION AND MODELING OF FLOW RATE OF REFRIGERANT 22 THROUGH SHORT TUBE RESTRICTOR", NIST INTERAGENCY REPORT 89-4120, (00/89).....	4550
REED, K.A., "PRODUCT MODELLING FOR BUILDINGS FOR DATA EXCHANGE STANDARDS: FROM IGES TO PDES/STEP AND BEYOND", PROCEEDINGS OF THE JOINT CIB W74 AND CIB W78 SEMINAR ON CONCEPTUAL MODELLING OF BUILDINGS 10/24-28/88, (00/89).....	4538
JUNG, D.S, MCLINDEN, M.O., RADERMACHER, R., DIDION, D.A., "HORIZONTAL FLOW BOILING HEAT TRANSFER EXPERIMENTS WITH A MIXTURE OF R22/R114", INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER VOL. 32, NO. 1, PP. 131-145, (01/89).....	4253
PARK, C., BUSHBY, S.T., KELLY, G.E., "SIMULATION OF A LARGE OFFICE BUILDING SYSTEM USING THE HVACSIM+ PROGRAM", ASHRAE TRANSACTIONS VOL. 95 PART 1, (01/89).....	4296
BUSHBY, S.T., NEWMAN, H.M., "STANDARDIZING ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS", ASHRAE JOURNAL VOL. 31, NO. 1, (01/89).....	4484
PALMER, M.E., HARRISON, R.J./SANDIA, "GUIDELINES FOR THE SPECIFICATION AND VALIDATION OF IGES APPLICATION PROTOCOLS", NIST INTERAGENCY REPORT 88-3846, (01/89).....	4423
BURCH, D.M., LICITRA, B.A., ZARR, R.R., EBBERTS, D.F., "THERMAL RESISTANCE MEASUREMENTS AND CALCULATIONS OF AN INSULATED CONCRETE BLOCK WALL", ASHRAE TRANSACTIONS VOL. 95, PART 1, 1989, (01/89)..	4390
MAHAJAN, B.M., EVANS, J., HILL, J.E., "ASSESSMENT OF ROBOTICS FOR IMPROVED BUILDING OPERATION AND MAINTENANCE", NIST INTERAGENCY REPORT 88-4006, (01/89).....	4487
WORTHEY, J.A., "GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS", JOURNAL OF THE IES 18 (1), PP 49-62, (01/89).....	4617

CHWALOWSKI, M., DIDION, D.A., DOMANSKI, P.A., "VERIFICATION OF EVAPORATOR COMPUTER MODELS AND ANALYSIS OF PERFORMANCE OF AN EVAPORATOR COIL", ASHRAE TRANSACTIONS VOL. 95, PART 1, (02/89)...	4479
FANG, J.B., GROT, R.A., "EVALUATION OF THERMAL PROBE METHOD FOR ESTIMATING THE HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS", NBS INTERAGENCY REPORT 88-4009, (02/89).....	4308
DANNER, W. F., "SEMANTIC MODELING FOR OBJECT-ORIENTED AND KNOWLEDGE-BASED INFORMATION SYSTEMS", KNOWLEDGE-BASED SYSTEMS IN ARCHITECTURE, (02/89).....	4421
PERSILY, A.K., AXLEY, J.W., "MEASURING AIRFLOW RATES WITH PULSE TRACER TECHNIQUES", ASTM SYMPOSIUM, AIR CHANGE RATE AND AIR TIGHTNESS IN BUILDINGS, (04/89).....	4486
PERSILY, A.K., DOLS, W.S., "THE RELATION OF CO2 CONCENTRATION TO OFFICE BUILDING VENTILATION", PROCEEDINGS OF ASTM SYMPOSIUM ON AIR CHANGE RATE AND AIR TIGHTNESS IN BUILDINGS", (04/89).....	4543
KEDZIERSKI, M.A., DIDION, D.A., "VISUALIZATION OF NUCLEATE FLOW BOILING FOR A R22/R114 MIXTURE AND THEIR COMPONENTS', EXPERIMENTAL HEAT TRANSFER JOURNAL, (04/89).....	4551
COLLINS, B.L., GILLETTE, G.L., FISHER, W.S., MARANS, R.W., "EVALUATING OFFICE LIGHTING ENVIRONMENTS: SECOND LEVEL ANALYSIS", NIST INTERAGENCY REPORT 89-4069, (04/89).....	4555
GROT, R.A., PERSILY, A.K., "ENVIRONMENTAL EVALUATION OF THE PORTLAND EAST FEDERAL OFFICE BUILDING PREOCCUPANCY AND EARLY OCCUPANCY RESULTS", NIST INTERAGENCY REPORT 89-4066, (04/89).....	4564
DOUGHERTY, B.P., THOMAS, W.C., "DEVELOPMENT OF AN AUTOMATED PROBE FOR THERMAL CONDUCTIVITY MEASUREMENTS", NIST INTERAGENCY REPORT 89-563, (05/89).....	4658
LOPEZ, L.A., ELAM, S., REED, K.A., "SOFTWARE CONCEPT FOR CHECKING ENGINEERING DESIGNS FOR CONFORMANCE WITH CODES AND STANDARDS", ENGINEERING WITH COMPUTERS VOL. 5, PP 63-78 (1989), (05/89).....	4663
MCLINDEN, M.O., DIDION, D.A., "THERMOPHYSICAL PROPERTY NEEDS FOR THE ENVIRONMENTALLY-ACCEPTABLE HALOCARBON REFRIGERANTS", INTERNATIONAL JOURNAL OF THERMOPHYSICS, (05/89).....	4536
WALTON, G.N., "AIRNET - A COMPUTER PROGRAM FOR BUILDING AIRFLOW NETWORK MODELING", NIST INTERAGENCY REPORT 89-4072, (05/89).....	4552
DOMANSKI, P.A., "REVISION 1 - RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING MODE", NIST INTERAGENCY REPORT 89-4071, (05/89).....	4566
WALTON, G.N., "AIRFLOW NETWORK MODELS FOR COMPONENT BASED BUILDING AIRFLOW MODELING", ASHRAE TRANSACTIONS VOL. 95, PART 2, (06/89)..	4476
PARK, C., KELLY, G.E., "A STUDY OF THE PERFORMANCE OF RESIDENTIAL BOILERS FOR SPACE AND DOMESTIC HOT WATER HEATING", NIST INTERAGENCY REPORT 89-4104, (06/89).....	4557
LIU, S.T., KELLY, G.E., "RULE BASED DIAGNOSTIC METHOD FOR HVAC FAULT DETECTION, PROCEEDINGS OF THE INTERNATIONAL BUILDING PERFORMANCE SIMULATION ASSOCIATION CONFERENCE, (06/89).....	4540

FANNEY, A.H., "THE MEASURED PERFORMANCE OF RESIDENTIAL WATER HEATERS USING EXISTING AND PROPOSED DEPARTMENT OF ENERGY TEST PROCEDURES", ASHRAE TRANSACTIONS VOL. 95, PART II, (06/89).....	4482
GROT, R.A., AXLEY, J.W., "THE COUPLED AIRFLOW AND THERMAL ANALYSIS PROBLEM IN BUILDING AIRFLOW SYSTEM SIMULATION", ASHRAE TRANSACTIONS VOL. 95, PART II, (06/89).....	4644
BUSHBY, S.T., "TESTING CONFORMANCE TO ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS - PART 1: TEST ARCHITECTURE", ASHRAE TRANSACTIONS VOL. 95 PART 2, (06/89).....	4558
THOMAS, W.C., BURCH, D.M., "EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR PREDICTING WATER VAPOR SORPTION AT INTERIOR BUILDING SURFACES", ASHRAE TRANSACTIONS VOL. 95, PART II, (06/89).....	4587
WALTON, G.N., "CONSIDERATIONS FOR ADVANCED BUILDING THERMAL SIMULATION PROGRAMS", PROCEEDINGS - BUILDING SIMULATION '89 (IBPSA) (06/89).....	4556
DOLS, W.S., PERSILY, A.K., "VENTILATION AND AIR QUALITY INVESTIGATION OF U.S.G.S. BUILDING", NIST INTERAGENCY REPORT 89-4126, (07/89)..	4613
MAHAJAN, B.M., "A METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS CONTAMINANT REMOVAL FILTERS", NIST INTERAGENCY REPORT 89-4119, (08/89).....	4584
RUBIN, A.I., GILLETTE, G.L., "INTERIM GUIDELINE FOR WORKSTATION DESIGN", NIST INTERAGENCY REPORT 89-4163, (08/89).....	4588
DOMANSKI, P.A., "EVISM - AN EVAPORATOR MODEL ACCOUNTING FOR REFRIGERANT AND ONE DIMENSIONAL AIR DISTRIBUTION", NIST INTERAGENCY REPORT 89-4133, (08/89).....	4583
PERSILY, A.K., DOLS, W.S., NABINGER, S.J., VANBRONKHORST, D.A., "AIR QUALITY INVESTIGATION IN THE NIH RADIATION ONCOLOGY BRANCH", NIST INTERAGENCY REPORT 89-4145, (08/89).....	4657
FANG, J.B., "QUANTIFICATION OF HEAT LOSSES THROUGH STRUCTURAL SUPPORTS FOR SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS", NIST INTERAGENCY REPORT 89-4134, (08/89).....	4643
BURCH, D.M., THOMAS, W.C., MATHENA, L.R., LICITRA, B.A., WARD, D.B., "TRANSIENT MOISTURE AND HEAT TRANSFER IN MULTILAYER NONISOTHERMAL WALLS--COMPARISON OF PREDICTED AND MEASURED RESULTS 1989", ASHRAE/DOE/BTECC/CIBSE THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS IV CONFERENCE, (08/89).....	4659
HILL, J.E., "TECHNIQUES FOR INVESTIGATING BUILDING INDOOR AIR QUALITY", PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON HEAT AND MASS TRANSFER IN BUILDING MATERIALS, (09/89).....	4614
DOUGHERTY, B.P., "A PROPOSED METHODOLOGY FOR RATING AIR-SOURCE HEAT PUMPS THAT HEAT, COOL, AND PROVIDE DOMESTIC WATER HEATING", NIST INTERAGENCY REPORT 89-4154, (09/89).....	4607
COLLINS, B.L., GILLETTE, G.L., DAHIR, M.S., "POST-OCCUPANCY EVALUATION OF SEVERAL U.S. GOVERNMENT BUILDINGS", NIST INTERAGENCY REPORT 89-4175, (09/89).....	4661

WRIGHT, T., PALMER, M.E., REMINGTON, D., MAKINS, L., FLEMING, J., "OVERVIEW OF IGES/PDES TESTING PROJECT", NIST INTERAGENCY REPORT 89-4207, (10/89).....	4618
ZARR, R.R., SOMERS, T.A., "THERMAL CONDUCTIVITY OF FUMED SILICA BOARD AT ROOM TEMPERATURE", 21ST INTERNATIONAL THERMAL CONDUCTIVITY CONFERENCE, (10/89).....	4585
SILBERSTEIN, S., "A GYPSUM WALLBOARD FORMALDEHYDE SORPTION MODEL", NIST INTERAGENCY REPORT 89-4028, (11/89).....	4470
JUNG, D.S., DIDION, D.A., "A MIXING RULE FOR LIQUID VISCOSITIES OF REFRIGERANT MIXTURES", INTERNATIONAL JOURNAL OF REFRIGERATION, (12/89).....	4554
TREADO, S.J., "THE EFFECT OF BUILDING ENVELOPES ON COOLING LOADS DUE TO LIGHTING", CONFERENCE PAPER: THERMAL PERFORMANCE OF THE EXTERIOR ENVELOPES OF BUILDINGS IV, (12/89).....	4611
GROT, R.A., HODGSON, A.T., DAISEY, J.M., "SOURCE STRENGTHS AND SOURCES OF VOLATILE ORGANIC COMPOUNDS IN A NEW OFFICE BUILDING", APCA JOURNAL '89, (12/89).....	4610
TREADO, S.J., "THE INTERACTION OF BUILDING LIGHTING, HEATING AND COOLING SYSTEMS", LIGHTING, DESIGN AND APPLICATIONS MAGAZINE, (12/89).....	4586
PERSILY, A.K., DOLS, W.S., "VENTILATION AND AIR QUALITY INVESTIGATION OF THE MADISON BUILDING PHASE I REPORT', NIST INTERAGENCY REPORT 89-4219, (12/89).....	4767

PUBLICATION REFERENCE INDEX

<u>RPT REF</u> <u>NUMBER</u>	<u>PUBLICATION TITLE</u>
118	EVALUATION OF THE VARIATION IN THERMAL PERFORMANCE IN A $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ PHASE CHANGE SYSTEM
675	CEMENTS: SPECIALTIES
676	CEMENTS: PORTLAND CEMENTS, BLENDED CEMENTS, AND MORTARS
677	CEMENTS: CALCIUM ALUMINATE
974	THE COMING REDEFINITION OF PHOTOMETRY
2657	ANALYSIS OF SHORING LOADS & SLAB CAPACITY FOR MULTISTORY CONCRETE CONSTRUCTION
2704	UNCERTAINTIES IN THE CROSS-SPECTRAL METHOD FOR ACOUSTIC INTENSITY UNDER SEMI-REVERBERANT CONDITIONS
2706	GUIDELINES FOR THE PREVENTION OF TRAFFIC NOISE PROBLEMS
2808	RISKS OF BLISTERING OF BUILT-UP ROOFING MEMBRANES APPLIED TO POLYURETHANE FOAM INSULATION
2811	LINEAR OPPONENT-COLORS MODEL OPTIMIZED FOR BRIGHTNESS PREDICTION
2840	CALIBRATION OF THE NBS CALIBRATED HOT BOX
2871	ANALYSIS OF IN-PLACE TEST DATA WITH SPREADSHEET SOFTWARE
2897	OUTLINE OF AN EXPERT SYSTEM APPROACH TO RESIDENTIAL AIR INFILTRATION
2899	RATIONALE AND PLAN FOR CENTER FOR BUILDING TECHNOLOGY RESEARCH TO IMPROVE INDOOR AIR QUALITY
2900	A STATE-OF-THE-ART RESEARCH ASSESSMENT FOR RESIDENTIAL ATTIC CONDENSATION
2902	EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR PREDICTING MOISTURE TRANSFER IN ATTICS
2912	THE EFFECT OF SHORT CYCLING AND FAN DELAY ON THE EFFICIENCY OF A MODIFIED RESIDENTIAL HEAT PUMP
2927	MODELLING OF A HEAT PUMP CHARGED WITH A NONAZEOTROPIC REFRIGERANT MIXTURE
2929	INTER-ROOM AIR FLOW BY NATURAL CONVECTION VIA A DOORWAY OPENING
2936	A BULLETIN BOARD SYSTEM FOR FEEDBACK TO THE DURCON EXPERT SYSTEM: A DESCRIPTION AND REFERENCE
2943	PERIODIC HEAT CONDUCTION IN ENERGY STORAGE CYLINDERS WITH CHANGE OF PHASE
2984	INORGANIC COMPOUNDS FOR PASSIVE SOLAR ENERGY STORAGE -- SOLID STATE DEHYDRATION MATERIALS AND HIGH SPECIFIC HEAT MATERIALS
2985	HEATS OF DEHYDRATION AND SPECIFIC HEATS OF COMPOUNDS FOUND IN CONCRETE AND THEIR POTENTIAL FOR ENERGY STORAGE

- 2986 SYNTHESIS AND CHARACTERIZATION OF ETTRINGITE AND RELATED PHASES
- 2987 INFLUENCE OF CEMENT ALKALI DISTRIBUTION ON EXPANSION DUE TO ALKALI-SILICA REACTION
- 2988 CHARACTERIZATION OF EPOXY COATINGS ON COLD ROLLED STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY
- 2989 FRACTAL-BASED DESCRIPTION OF THE ROUGHNESS OF BLASTED STEEL PANELS
- 2990 THE NBS SOLAR COLLECTOR RELIABILITY/DURABILITY TEST PROGRAM: SUMMARY OF RESULTS AND RECOMMENDATIONS FOR COLLECTOR TESTING
- 2993 THE HYDRATION OF TRICALCIUM ALUMINATE AND TETRACALCIUM ALUMINOFERRITE IN THE PRESENCE OF GYPSUM
- 2994 THE IMPLICATIONS OF PHASE EQUILIBRIA ON HYDRATION IN THE TRICALCIUM SILICATE-WATER AND THE TRICALCIUM ALUMINATE-GYPSUM WATER SYSTEMS
- 2996 A MASS SPECTROMETRIC INVESTIGATION OF THE THERMAL OXIDATIVE REACTIVITY OF ETHYLENE GLYCOL
- 2997 MAGNESIUM OXYCHLORIDE CEMENT-BASED FORM INSULATION: A LITERATURE SURVEY
- 2999 RECOMMENDED PRACTICES FOR U.S. POSTAL SERVICE ROOFING PROGRAM
- 3006 SEMI-QUANTITATIVE CONDITION ASSESSMENT OF PAINTS AND SUBSTRATE SURFACES
- 3011 IMPLICATIONS OF COMPUTER-BASED SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR CEMENT RESEARCH
- 3012 PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS
- 3020 MACHINE REPRESENTATION OF STANDARDS
- 3021 EFFECT OF INTERIOR MASS SURFACES ON SPACE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE
- 3022 HEURISTIC ANALYSIS OF VON KRIES COLOR CONSTANCY
- 3023 THE AIRTIGHTNESS OF OFFICE BUILDING ENVELOPES
- 3024 A HEAT TRANSFER ANALYSIS OF METAL FASTENERS IN LOW-SLOPE ROOFS
- 3025 COMPARISON OF MEASURED AND PREDICTED SENSIBLE HEATING AND COOLING LOADS FOR SIX TEST BUILDINGS
- 3026 THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED AND SUPERINSULATED RESIDENTIAL WALLS USING A CALIBRATED HOT BOX
- 3027 EFFECT OF WALL MASS ON PEAK SPACE SENSIBLE HEATING AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE
- 3028 A COMPUTER PROGRAM FOR CALCULATING HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS
- 3029 MEASUREMENT OF THERMAL CHARACTERISTICS OF TWO OFFICE BUILDINGS
- 3030 CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES
- 3031 SUMMARY OF CIRCULAR AND SQUARE EDGE EFFECT STUDY FOR GUARDED-HOT-PLATE AND HEAT-FLOW-METER APPARATUSES

3033 MODELLING WINDOW OPTICS FOR BUILDING ENERGY ANALYSIS
 3034 MINIMUM LIFE CYCLE COST HEAT LOSSES FOR SHALLOW TRENCH
 UNDERGROUND HEAT DISTRIBUTION SYSTEMS
 3035 PERFORMANCE MEASUREMENTS OF INFRARED IMAGING SYSTEMS USED
 TO ASSESS THERMAL ANOMALIES
 3036 WINDOWS U-VALUES: RESEARCH NEEDS AND PLANS
 3037 VISUAL ASSESSMENT OF HOLOGRAMS
 3038 REVISED INTERIM DESIGN GUIDELINE FOR AUTOMATED OFFICES
 3039 THE EFFECT OF INTERIOR MASS SURFACES ON THE SPACE HEATING
 AND COOLING LOADS OF A SINGLE-FAMILY RESIDENCE
 3040 FINAL EVALUATION OF A COLOR CALIBRATOR FOR A RADAR REMOTE
 WEATHER DISPLAY SYSTEM
 3041 CONTROLLING AIR QUALITY IN OFFICE BUILDINGS
 3042 CONTROL OF INDOOR AIR QUALITY BY MEANS OF HVAC SYSTEMS
 3064 SERVICEABILITY LIMIT STATES: DEFLECTION
 3068 ENVIRONMENTAL LOAD DIRECTION AND RELIABILITY BOUNDS
 3069 PROBABILITY BASED LOAD COMBINATION CRITERIA FOR DESIGN OF
 SHEAR WALL STRUCTURES
 3070 FLAW DETECTION IN CONCRETE BY FREQUENCY SPECTRUM ANALYSIS OF
 IMPACT-ECHO WAVEFORMS
 3071 DIRECTIONAL HURRICANE WIND SPEEDS
 3077 PERIMETER SAFETY NET PROJECTION REQUIREMENTS
 3078 AMPLIFICATION OF WIND EFFECTS ON COMPLIANT PLATFORMS
 3079 RELIABILITY OF COMPLIANT DRILLING AND PRODUCTION PLATFORMS
 3080 HELICAL PROBE TESTS FOR SHALLOW SOIL EXPLORATION
 3081 PROPOSED EXPERIMENTAL PROGRAM FOR LARGE-SCALE BRACED FRAME
 CONNECTIONS
 3082 WIND AND SEISMIC EFFECTS - PROCEEDINGS OF THE 17TH JOINT
 PANEL MEETING
 3083 LIMIT STATE PROBABILITIES FOR WOOD STRUCTURAL MEMBERS
 3084 TENSILE PROPERTIES OF PLEATED SYNTHETIC ROPE
 3085 STUDY OF REVERSE TORQUE RATIO IN THE HELICAL PROBE TEST
 3089 HVACSIM+ BUILDING SYSTEMS AND EQUIPMENT SIMULATION PROGRAM -
 BUILDING LOADS CALCULATION
 3105 TOWARD MODULAR SEMANTIC APPLICATION LAYER PROTOCOLS
 (MS-ALPS): COMMUNICATION BETWEEN HETEROGENEOUS INFORMATION
 SYSTEM USING ARTIFICIAL INTELLIGENCE PROGRAMMING TECH
 3106 EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT
 FLUX DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE
 3107 COMBUSTION TESTING METHODS FOR CATALYTIC SPACE HEATERS
 3108 CODE REQUIREMENTS IN PLUMBING ENGINEERING FOR DWELLING WITH
 ACCEPTANCE OF WATER CONSERVATION
 3109 COMPUTER DESIGN PROCEDURES - INTRODUCTION FOR ACCEPTANCE IN
 THE REGULATORY PROCESS
 3112 THERMAL PERFORMANCE COMPARISONS FOR SOLAR HOT WATER SYSTEMS
 SUBJECTED TO VARIOUS COLLECTOR AND HEAT EXCHANGER FLOW RATES

- 3113 IMPACT OF REFRIGERANT PROPERTY UNCERTAINTIES ON PREDICTION OF VAPOR COMPRESSION CYCLE PERFORMANCE
- 3114 DYNAMIC SIMULATION OF WHOLE BUILDING SYSTEMS
- 3115 INITIAL TEST RESULTS AND TEST PLAN FOR DIFFERENTIAL TEMPERATURE CONTROLLERS USED IN SOLAR ENERGY SYSTEMS
- 3117 COMPARISON OF EXPERIMENTAL AND CALCULATED PERFORMANCE OF INTEGRAL COLLECTOR-STORAGE SOLAR WATER HEATERS
- 3118 DOE/NBS FORUM ON TESTING AND RATING PROCEDURES FOR CONSUMER PRODUCTS
- 3119 INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURE CONFIGURATIONS
- 3120 PART LOAD SEASONAL EFFICIENCY TEST PROCEDURE EVALUATION OF FURNACE CYCLE CONTROLLERS
- 3121 THE PERFORMANCE OF A CONVENTIONAL RESIDENTIAL SIZED HEAT PUMP OPERATING WITH A NONAZEOTROPIC BINARY REFRIGERANT
- 3122 APPLICATION OF A HARD-SPHERE EQUATION OF STATE TO REFRIGERANTS AND REFRIGERANT MIXTURES
- 3123 CONVECTION BETWEEN ZONES WITH NON-LINEAR TEMPERATURE DISTRIBUTIONS
- 3134 RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING MODE
- 3137 COMPUTER SIMULATED HYDRATION OF A CEMENT MODEL
- 3139 STATISTICAL METHODS FOR IN-PLACE STRENGTH PREDICTIONS BY THE PULLOUT TEST
- 4001 INTERPRETATION OF THE EFFECTS OF RETARDING ADMIXTURES ON PASTES OF C3A PLUS GYPSUM, AND PORTLAND CEMENT MIXTURE
- 4014 A MICROSTRUCTURAL FEATURE WHICH MAY BE RELATED TO STRENGTH OF CONCRETE
- 4016 SIMULATION OF MICROSTRUCTURE DEVELOPMENT DURING THE HYDRATION OF CEMENT COMPOUND
- 4017 MICROSTRUCTURAL ANALYSIS OF HARDENED ALITE PASTE: PART II, MICROSCOPY AND REACTION PRODUCTS
- 4018 MICROSTRUCTURAL ANALYSIS OF HARDENED ALITE PASTE: PART I, POROSITY
- 4019 AQUEOUS SOLUBILITY RELATIONSHIPS FOR TWO TYPES OF CALCIUM SILICATE HYDRATE
- 4020 THE INFLUENCE OF SELECTED RETARDERS ON THE HYDRATION OF A CEMENT COMPOUND: IMPLICATION ON THE SETTING TIME IN PORTLAND CEMENT
- 4042 ON ESTABLISHING FUNCTIONAL RELATIONSHIPS BETWEEN REACTION MECHANISMS AND ENGINEERING PROPERTIES OF CEMENT-BASED SYSTEMS
- 4046 QUANTITATIVE CHARACTERIZATION OF THE MICROSTRUCTURE OF HARDENED TRICALCIUM SILICATE PASTE USING COMPUTER IMAGE
- 4047 USING THE COMPUTER TO ANALYZE COATING DEFECTS
- 4048 EFFECTS OF TEMPERATURE AND STRESS ON THE TIME-TO-FAILURE OF EPDM T-PEEL JOINTS

- 4049 ROUGHNESS MEASURES OF BLASTED STEEL SURFACES REMOTELY IMAGED WITH A THERMOGRAPHIC CAMERA
- 4052 STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: AN ALTERNATIVE TO THE TENSILE STRENGTH CRITERION
- 4053 INVESTIGATION OF THE USE OF NONDESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF SINGLE-PLY ROOFING MEMBRANES
- 4054 SUGGESTED APPROACHES FOR REVISIONS OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND TENSILE FATIGUE STRENGTH TESTS OF BITUMINOUS MEMBRANES
- 4055 UPDATE: ASTM STANDARDS FOR SINGLE-PLY MEMBRANES
- 4056 D-B REPORTS ON SINGLE-PLY ROOFING ACTIVITIES
- 4057 ROOFER INTERVIEW
- 4058 INVESTIGATION OF THE CORROSION OF ALUMINUM STANDING-SEAM ROOFING AT AN ARMY FACILITY
- 4059 NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY STUDY
- 4060 EFFECT OF VOLATILE ORGANIC REGULATIONS ON THE SELECTION AND USE OF COATINGS INCLUDED IN AFM 85-3
- 4061 PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND COMPONENTS
- 4062 WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 18TH JOINT PANEL MEETING
- 4065 THE USE OF NONDESTRUCTIVE METHODS FOR INSPECTION OF SINGLE-PLY ROOFING MEMBRANES
- 4066 PERFORMANCE TEST FOR GRAFFITI REMOVERS
- 4067 KNOWLEDGE BASED SYSTEM FOR DURABLE REINFORCED CONCRETE BUILDING MATERIALS: NONDESTRUCTIVE EVALUATION
- 4068 REFRIGERANT MIXTURES FOR HEAT PUMPS
- 4072 RATING ELECTRIC HEAT PUMP PERFORMANCE
- 4073 THE DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA
- 4074 EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SOLAR RADIANT FLUX DISTRIBUTION ON INTERIOR SURFACES OF A SUNSPACE
- 4075 DESIGN FOR PRODUCTIVITY - END USER INVOLVEMENT
- 4076 ERGONOMICS IN THE AUTOMATED OFFICE
- 4078 THE DESIGN PROCESS FOR INTELLIGENT BUILDINGS
- 4079 DESIGN OF OFFICE MUST ENTER INTO AUTOMATION PLANNING
- 4083 THERMAL WAVE MICROSCOPY
- 4084 APPLICATION OF REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY
- 4085 APPLICATION OF THERMAL WAVE ELECTRON MICROSCOPY TO IMAGE AND ASSESS CORROSION ON ROUGH STEEL
- 4086 DEGRADATION OF ORGANIC PROTECTIVE COATINGS ON STEEL
- 4087 DEGRADATION OF EPOXIDE COATINGS ON STEEL UNDER MILD CORROSIVE ENVIRONMENTS
- 4089 IMAGING AND ASSESSMENT OF CORROSION ON COATED AND UNCOATED STEEL
- 4090 CORROSION INDUCED DEGRADATION OF ANINE CURED EPOXY COATINGS ON STEEL

- 4091 DEGRADATION OF ORGANIC PROTECTIVE COATINGS IN CORROSIVE ENVIRONMENT
- 4096 A SELF-HEATED THERMISTOR FLOWMETER FOR FLOW MEASUREMENT IN A THERMOSYPHON SOLAR HOT WATER SYSTEM
- 4097 MEASUREMENT OF BUOYANCY - INDUCED FLOW USING A SELF-HEATED THERMISTOR FLOWMETER
- 4098 THE MAINTENANCE AND IMPLEMENTATION OF AN EXPERT SYSTEM FOR DURABLE CONCRETE
- 4099 INFORMATION MANAGEMENT FOR THE TENTH TRIENNIAL CIB CONGRESS
- 4102 REFLECTIONS ON THE PRESENTATIONS - TECHNOLOGY AND THE FUTURE OF THE US CONSTRUCTION INDUSTRY
- 4103 BUILDING STRUCTURAL FAILURES - THEIR CAUSE AND PREVENTION
- 4106 MEASUREMENT OF INTERZONAL HEAT AND MASS TRANSFER BY NATURAL CONVECTION
- 4113 DIURNAL EFFECTIVENESS OF PHASE CHANGE ENERGY STORAGE CYLINDERS
- 4116 SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION PROGRAM: USER MANUAL
- 4125 FLOW COEFFICIENTS FOR INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES
- 4127 AN INVESTIGATION OF HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS
- 4128 THE CURRENT ABILITY OF THE ARCHITECTURE, ENGINEERING, AND CONSTRUCTION INDUSTRY TO EXCHANGE CAD DATA SETS DIGITALLY
- 4132 INTRODUCTION TO SASE: STANDARDS ANALYSIS, SYNTHESIS AND EXPRESSION
- 4133 TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION
- 4146 THE USE OF ARTIFICIAL INTELLIGENCE PROGRAMMING TECHNIQUES FOR COMMUNICATION BETWEEN INCOMPATIBLE BUILDING INFORMATION SYSTEMS
- 4147 APPLICATION OF THE CARNAHAN-STARLING-DeSANTIS EQUATION OF STATE TO MIXTURES OF REFRIGERANTS
- 4148 FIELD PERFORMANCE OF THREE RESIDENTIAL HEAT PUMPS IN THE HEATING MODE
- 4149 ESTIMATING 3-D HEAT LOSS FROM RECTANGULAR BASEMENTS AND SLABS USING 2-D CALCULATIONS
- 4151 SPECIFICATIONS FOR THERMAL AND ENVIRONMENTAL EVALUATIONS OF ADVANCED-TECHNOLOGY OFFICE BUILDINGS
- 4152 FENESTRATION DESIGN FOR OFFICE AND RESIDENTIAL BUILDINGS
- 4153 ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS
- 4154 SAFETY COLOR APPEARANCE UNDER DIFFERENT ILLUMINANTS
- 4155 VENTILATION EFFECTIVENESS MEASUREMENTS IN AN OFFICE BUILDING
- 4156 FIELD MEASUREMENT OF THERMAL AND SOLAR/OPTICAL PROPERTIES OF INSULATING GLASS WINDOWS
- 4157 GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS

4158 SAFETY COLOR APPEARANCE UNDER SELECTED LIGHT SOURCES
 4166 POST: PLANT OPERATIONS SIMULATION TEMPLATE
 4167 BEHAVIOR OF 1/6-SCALE MODEL BRIDGE COLUMNS SUBJECTED TO
 CYCLIC INELASTIC LOADING
 4172 RESEARCH ON THE MANUFACTURE AND USE OF CEMENTS
 4173 PREDICTION OF SERVICE LIFE OF CONSTRUCTION AND OTHER
 MATERIALS
 4176 STANDARDS FOR SELECTING CORRECTIONAL FACILITY PRODUCTS AND
 SYSTEMS
 4179 COLOR AND LIGHTING
 4180 EVALUATION OF A STANDARD DEVICE FOR CALIBRATING CALORIMETER
 TEST ROOMS
 4181 FENESTRATION DESIGN FOR BUILDING ATRIA
 4185 DESIGN CRITERIA FOR GLASS CLADDING SUBJECTED TO WIND LOADS
 4187 DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC
 CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES
 4188 WIND EFFECTS ON STRUCTURES, SECOND EDITION
 4189 WIND TUNNEL TESTS AND EQUIVALENT 1-MINUTE LOADS FOR THE
 DESIGN OF CLADDING GLASS
 4191 CONTROL SYSTEM SIMULATION IN NORTH AMERICA
 4192 THERMAL RESISTANCE MEASUREMENTS OF A WELL-INSULATED WALL
 USING A CALIBRATED HOT BOX
 4194 FINITE ELEMENT ANALYSIS OF THE PULLOUT TEST USING A
 NONLINEAR DISCRETE CRACKING APPROACH
 4195 PRELIMINARY DYNAMIC ANALYSES OF THE MINISTRY OF AGRICULTURE
 BUILDING
 4196 ENGINEERING ASPECTS OF THE 1985 MEXICO EARTHQUAKE
 4197 LARGE SCALE BRIDGE COLUMN TESTS: A PROGRESS REPORT
 4198 EARTHQUAKE DAMAGE IN MEXICO CAUSED BY THE SEPTEMBER 1985
 EARTHQUAKE
 4199 A NEW STATISTICAL METHOD FOR PREDICTION OF CONCRETE STRENGTH
 FROM IN-PLACE TESTS
 4200 DESIGN OF FULLY REDUNDANT AUTONOMOUS LIFE SUPPORT SYSTEMS
 4204 CONSTRUCTION MATERIALS REFERENCE LABORATORIES AT NIST
 4205 ON REACTION BETWEEN SILICON AND NITROGEN PART II
 MICROSTRUCTURE
 4206 EPOXY IMPREGNATION OF HARDENED CEMENT PASTES FOR
 CHARACTERIZATION OF MICROSTRUCTURE
 4207 PRELIMINARY PERFORMANCE CRITERIA FOR STONE TREATMENTS FOR
 THE UNITED STATES CAPITOL
 4208 A WET CELL TO OBSERVE THE HYDRATION OF A CEMENT IN A
 SCANNING ELECTRON MICROSCOPE
 4209 INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE AND OTHER
 MATERIALS
 4210 METHODS FOR COMPARING THE PERFORMANCE OF PURE AND MIXED
 REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE

- 4211 INVESTIGATION OF INTERZONAL NATURAL CONVECTION FOR VARIOUS APERTURES
- 4212 INTERIM PROCEDURE TO MEASURE THE THERMAL PERFORMANCE OF WINDOW SYSTEMS
- 4213 SIMULTANEOUS MEASUREMENTS OF INFILTRATION AND INTAKE IN AN OFFICE BUILDING
- 4214 FIELD MEASUREMENTS OF HEAT FLOW THROUGH WINDOWS
- 4215 PERFORMANCE OF INSTANTANEOUS GAS-FIRED WATER HEATERS
- 4216 A SENSITIVITY STUDY OF THE REFRIGERANT PROPERTY UNCERTAINTIES ON THE VAPOR COMPRESSION CYCLE
- 4218 THE EFFECT OF WALL MASS ON THE ANNUAL SPACE HEATING AND COOLING LOADS OF RESIDENCES
- 4219 ALGORITHMS FOR CALCULATING RADIATION VIEW FACTORS BETWEEN PLANE CONVEX POLYGONS WITH OBSTRUCTIONS
- 4220 A METHOD FOR CHARACTERIZING THE DYNAMIC PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX
- 4222 THERMODYNAMICS OF CALCIUM SILICATE HYDRATES AND THEIR SOLUTIONS
- 4223 THE USE OF T-PEEL TESTS TO INVESTIGATE THE EFFECT OF APPLICATION PARAMETERS ON ADHESIVE-BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES
- 4224 EXPERT SYSTEM FOR SELECTING CONCRETE CONSTITUENTS
- 4225 ASTM STANDARDS ACTIVITIES FOR SINGLE-PLY ROOFING: THE EPDM SPECIFICATION IS CLOSE TO COMPLETION
- 4226 POTENTIAL APPLICATIONS OF A SEQUENTIAL CONSTRUCTION ANALYZER
- 4227 POZZOLAN PROGRAMS OF THE CEMENT AND CONCRETE REFERENCE LABORATORY
- 4229 CORROSION-INDUCED DEGRADATION OF AMINE-CURED EPOXY COATINGS ON COLD-ROLLED STEEL
- 4230 CALCULATIONS OF MAXIMUM ALLOWABLE HEAT LOSSES FOR VARIOUS SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS
- 4232 INVESTIGATION OF A WASHINGTON DC OFFICE BUILDING
- 4234 STRATEGIES FOR IMPLEMENTING IGES (INITIAL GRAPHICS EXCHANGE SPECIFICATION) FOR THE OPERATIONS OF NAVFAC (NAVAL FACILITIES ENGINEERING COMMAND)
- 4236 INTERIM SURVEY OF SELECTED MILITARY BUILDING ENVIRONMENT: A RESEARCH APPROACH
- 4237 THERMAL AND ECONOMIC ANALYSIS OF THREE HVAC SYSTEM TYPES IN A TYPICAL VA PATIENT FACILITY
- 4238 THE DAYLIGHTING AND ENERGY PERFORMANCE OF BUILDING ATRIA
- 4240 DIAGNOSTIC TECHNIQUES FOR EVALUATING OFFICE BUILDING ENVELOPES
- 4241 THE INFLUENCE OF CEMENT PORE SOLUTION ON ALKALI-SILICA REACTION
- 4243 FIELD EVALUATION OF THE QUALITY OF NEWLY FORMED ADHESIVE-BONDED SEAMS OF SINGLE-PLY MEMBRANES

- 4244 FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: THE BASIS FOR A FIELD TEST METHOD
- 4249 A MODEL FOR PARTICLE SIZE AND PHASE DISTRIBUTIONS IN CEMENT
- 4250 MEASUREMENT OF AIR VELOCITY COMPONENT OF NATURAL CONVECTIVE INTERZONAL AIR-FLOW
- 4253 HORIZONTAL FLOW BOILING HEAT TRANSFER EXPERIMENTS WITH A MIXTURE OF R22/R114
- 4256 BUILDING TECHNOLOGY PUBLICATIONS SUPPLEMENT 10: 1985-86
- 4258 MECHANICAL AND PHYSICAL PROPERTIES OF COQUINA STONE FROM CASTILLO DE SAN MARCOS NATIONAL MONUMENT
- 4259 FACTORS RELATED TO THE PERFORMANCE OF CONCRETE REPAIR MATERIALS
- 4260 A METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS CONTAMINANT REMOVAL DEVICES
- 4261 REPORT TO CONGRESS ON THE STRUCTURAL ASSESSMENT OF THE NEW US EMBASSY OFFICE BUILDING IN MOSCOW
- 4262 STRUCTURAL ASSESSMENT OF THE NEW US EMBASSY OFFICE BUILDING IN MOSCOW
- 4263 ENERGY RATING OF REFRIGERATORS WITH VARIABLE DEFROST CONTROLS
- 4265 A SIMPLIFIED MODEL FOR PREDICTING CUMULATIVE SENSIBLE COOLING LOADS
- 4266 LIGHTING FOR COLOR VISION
- 4267 ILLUMINATION CONDITIONS AND TASK VISIBILITY IN DAYLIT SPACES
- 4269 EXPERIMENTAL PLAN FOR INVESTIGATION OF LIGHTING AND HVAC INTERACTIONS
- 4270 AN EXPERT SYSTEM FOR DIAGNOSING AIR LEAKAGE AND MOISTURE PROBLEMS IN BUILDINGS
- 4272 EXPERIMENTAL GLASS FAILURE DATA & EQUIVALENT ONE-MINUTE LOADS
- 4273 WIND ENGINEERING-RECENT INVESTIGATION AND RESEARCH NEEDS
- 4275 PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE STRUCTURES FOR THE ARCTIC: PLANNING OF EXPERIMENTAL STUDY
- 4276 INFLUENCE OF MORTAR BEDDING ON MASONRY PRISM BEHAVIOR
- 4285 APPLYING EXPERT SYSTEMS TO BUILDING STANDARDS
- 4286 A REVIEW OF AUTOCLAVED AERATED CONCRETE PRODUCTS
- 4287 PROCEDURES FOR SPRINKLER INSTALLATION ON SURFACES WITH FIREPROOFING MATERIALS
- 4289 DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES
- 4292 CFC'S - QUEST FOR ALTERNATIVES
- 4293 WHAT COMES AFTER IGES
- 4294 A GLOBAL MODEL FOR BUILDING-PROJECT INFORMATION: ANALYSIS OF CONCEPTUAL STRUCTURES
- 4296 SIMULATION OF A LARGE OFFICE BUILDING SYSTEM USING THE HVACSIM+ PROGRAM
- 4297 THE DEVELOPMENT OF MODELS FOR PREDICTION OF INDOOR AIR QUALITY IN BUILDINGS

- 4303 BUILDING ENERGY SIMULATION USING ASSEMBLAGES OF DISCRETE THERMAL ELEMENTS
- 4307 TENSILE TEST TO MEASURE ADHESION BETWEEN OLD AND NEW CEMENT PASTE
- 4308 EVALUATION OF THERMAL PROBE METHOD FOR ESTIMATING THE HEAT LOSS FROM UNDERGROUND HEAT DISTRIBUTION SYSTEMS
- 4311 PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: LITERATURE REVIEW
- 4312 PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURES FOR THE ARCTIC: 1/25-SCALE MODEL STUDY
- 4313 PROCEEDINGS OF THE CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES
- 4314 REVIEW OF NONDESTRUCTIVE EVALUATION METHODS APPLICABLE TO CONSTRUCTION MATERIALS AND STRUCTURES
- 4315 INTEGRATED KNOWLEDGE SYSTEMS FOR CONCRETE SCIENCE AND TECHNOLOGY
- 4316 EXPERT SYSTEM FOR CONCRETE CONSTRUCTION
- 4317 AN AUTOMATED MAINTENANCE MANAGEMENT PROGRAM PART I: QUANTITATIVE ASSESSMENT OF THE EXTERIOR CONDITION OF METAL BUILDINGS AND ROOFING SYSTEMS (ETC.)
- 4321 INVESTIGATION OF L'AMBIANCE PLAZA BUILDING COLLAPSE IN BRIDGEPORT, CONNECTICUT
- 4323 INVESTIGATION OF THE COLLAPSE OF L'AMBIANCE PLAZA
- 4324 DETECTING DELAMINATIONS IN CONCRETE SLABS WITH AND WITHOUT OVERLAYS USING THE IMPACT-ECHO METHOD
- 4326 WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 19TH JOINT PANEL MEETING
- 4327 BUILDING TECHNOLOGY PROJECT SUMMARIES, 1987
- 4328 DYNAMIC CHARACTERIZATION OF STRUCTURES BY PULSE PROBING AND DECONVOLUTION
- 4330 FORMING ECONOMICAL CONCRETE BUILDINGS PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE
- 4332 CHARACTERIZATION OF EPOXIDE COATINGS ON STEEL BY REFLECTION/ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY - A QUANTITATIVE STUDY
- 4333 MICROSTRUCTURE AND FRACTURE AT THE CEMENT PASTE-AGGREGATE INTERFACE
- 4334 EPOXY IMPREGNATION PROCEDURE FOR HARDENED CEMENT SAMPLES
- 4339 A COMPARISON OF TWO TEST METHODS FOR DETERMINING TRANSFER FUNCTION COEFFICIENTS FOR A WALL USING A CALIBRATED HOT BOX
- 4340 USERS GUIDE TO POST - PLANT OPERATIONS SIMULATION TEMPLATE
- 4341 INVESTIGATION OF THE COLLAPSE OF L'AMBIANCE PLAZA
- 4343 IMPACT-ECHO METHOD: DETECTING HONEYCOMBING, THE DEPTH OF SURFACE-OPENING CRACKS, AND UNGROUTED DUCTS
- 4345 TRANSIENT IMPACT RESPONSE OF THICK CIRCULAR PLATES
- 4346 TRANSIENT IMPACT RESPONSE OF PLATES CONTAINING FLAWS

- 4347 A FINITE ELEMENT STUDY OF TRANSIENT WAVE PROPAGATION IN PLATES
- 4348 A FINITE ELEMENT STUDY OF THE INTERACTION OF TRANSIENT STRESS WAVES WITH PLANAR FLAWS
- 4349 MEASUREMENT OF THE SETTING TIME AND STRENGTH OF CONCRETE BY THE IMPACT-ECHO METHOD
- 4350 IMPACT-ECHO: A METHOD FOR FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES
- 4351 FINITE ELEMENT STUDIES OF TRANSIENT WAVE PROPAGATION
- 4352 FLAW DETECTION IN CONCRETE AND HETEROGENOUS MATERIALS USING TRANSIENT STRESS WAVES
- 4353 ANALYSIS OF SHORING LOADS AND SLAB CAPACITY FOR MULTISTORY CONCRETE CONSTRUCTION
- 4354 THE WHITTIER NARROWS EARTHQUAKE OF OCTOBER 1, 1987 A RECONNAISSANCE REPORT
- 4355 LOADS - CHAPTER 2, BUILDING STRUCTURAL DESIGN HANDBOOK
- 4357 INELASTIC BEHAVIOR OF 1/6 SCALE MODEL BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING
- 4358 SETTING TIME AND STRENGTH OF CONCRETE USING THE IMPACT-ECHO METHOD
- 4359 A POINT SOURCE - POINT RECEIVER TECHNIQUE FOR FLAW DETECTION IN CONCRETE
- 4360 LABORATORY AND FIELD STUDIES OF THE IMPACT-ECHO METHOD FOR FLAW DETECTION IN CONCRETE
- 4362 CONSTRUCTION LOADS AND LOAD EFFECTS IN CONCRETE BUILDING CONSTRUCTION
- 4364 COMPUTER INTEGRATED CONSTRUCTION
- 4366 OIL STORAGE TANK COLLAPSE AT ASHLAND FLOREFFE TERMINAL
- 4367 LITERATURE REVIEW OF STRENGTHENING METHODOLOGIES OF EXISTING STRUCTURES
- 4370 PLAN FOR A DESIGN STUDY FOR A NATIONAL EARTHQUAKE ENGINEERING EXPERIMENTAL FACILITY
- 4371 REINFORCEMENT BUCKLING IN REINFORCED CONCRETE FLEXURAL MEMBERS
- 4373 DYNAMICS AND RELIABILITY OF COMPLIANT DRILLING AND PRODUCTION PLATFORMS
- 4374 LITERATURE REVIEW OF POST-INSTALLED ANCHORAGE IN CONCRETE
- 4375 NONDESTRUCTIVE ASSESSMENT OF CONCRETE STRUCTURES USING THE IMPACT-ECHO METHOD
- 4376 CHARACTERIZATION OF A PIEZOELECTRIC TRANSDUCER COUPLED TO A SOLID
- 4378 FLAW DETECTION IN CONCRETE USING TRANSIENT STRESS WAVES
- 4379 ASSESSMENT: US OFFICE BUILDING IN MOSCOW
- 4380 STRUCTURE: US OFFICE BUILDING IN MOSCOW
- 4382 PROGRESSIVE COLLAPSE: US OFFICE BUILDING IN MOSCOW
- 4383 TERRESTRIAL TRENDS FOR BUILDING TECHNOLOGY IN NORTH AMERICA
- 4384 RATING OF MIXED SPLIT RESIDENTIAL AIR CONDITIONERS

- 4386 MULTI-ZONE DISPERSAL ANALYSIS BY ELEMENT ASSEMBLY
4387 MODELLING REFRIGERANT MIXTURES WITH HARD-SPHERE EQUATIONS OF STATE
4389 RECOMMENDED PROCEDURE FOR RATING AND TESTING OF VARIABLE SPEED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS
4390 THERMAL RESISTANCE MEASUREMENTS AND CALCULATIONS OF AN INSULATED CONCRETE BLOCK WALL
4391 PROGRESS TOWARD A GENERAL ANALYTICAL METHOD FOR PREDICTING INDOOR AIR POLLUTION IN BUILDINGS - INDOOR AIR QUALITY MODELING PHASE III REPORT
4392 STANDARDS FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES
4395 CAPACITY AND OVERLOAD TESTS OF A 7-1/2 TON PACKAGE UNIT AIR CONDITIONER
4396 EFFECT OF VEILING REFLECTIONS ON VISION OF COLORED OBJECTS
4397 EXPERIMENTAL EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD AIR CONDITIONER
4398 WORKING FLUID SELECTION FOR SPACE-BASED TWO-PHASE HEAT TRANSPORT SYSTEMS
4400 REVISED UNITARY HEAT PUMP SPECIFICATION FOR MILITARY FAMILY HOUSING
4401 APPLICATION LAYER COMMUNICATION PROTOCOLS FOR BUILDING ENERGY MANAGEMENT AND CONTROL SYSTEMS
4403 EXPERIMENTAL MEASUREMENTS OF CONDENSATION ON VERTICAL PLATES WITH ENHANCED FINS
4405 FLAME ROLL-OUT STUDY FOR GAS FIRED WATER HEATERS
4406 COMPARISON OF DIRECT DIGITAL CONTROL AND PNEUMATIC CONTROL SYSTEMS IN A LARGE OFFICE BUILDING
4407 HORIZONTAL FLOW BOILING OF PURE AND MIXED REFRIGERANTS
4414 ROOM-TEMPERATURE THERMAL CONDUCTIVITY MEASUREMENTS OF FUMED-SILICA INSULATION FOR A STANDARD REFERENCE MATERIAL
4415 INTRODUCTION TO ACI 306.1-87: SPECIFICATION FOR COLD WEATHER CONCRETING
4416 CONCEPTUAL STRUCTURES FOR MODELING BUILDING INFORMATION
4418 AIR EXCHANGE AND POLLUTANT CONCENTRATION MEASUREMENTS IN TWO OFFICE BUILDINGS
4419 A DISCRETE THERMAL ANALYSIS METHOD FOR BUILDING ENERGY SIMULATION PART 1 LINEAR THERMAL SYSTEMS WITH DTAM1 USERS MANUAL
4421 SEMANTIC MODELING FOR OBJECT-ORIENTED AND KNOWLEDGE-BASED INFORMATION SYSTEMS
4423 GUIDELINES FOR THE SPECIFICATION AND VALIDATION OF IGES APPLICATION PROTOCOLS
4427 STANDARDS FOR BUILDING MATERIALS, EQUIPMENT, AND SYSTEMS
4429 COMPARISON OF CHROMOTROPIC ACID, PARAROSANILINE, AND GRAVIMETRIC FORMALDEHYDE DETERMINATIONS

- 4430 PREDICTING FORMALDEHYDE CONCENTRATIONS IN MANUFACTURED HOUSING RESULTING FROM MEDIUM-DENSITY FIBERBOARD
- 4431 ESTIMATING INTERROOM CONTAMINANT MOVEMENT
- 4433 OFFICE DESIGN MEASUREMENTS FOR PRODUCTIVITY - A RESEARCH OVERVIEW
- 4435 THERMODYNAMIC EVALUATION OF REFRIGERANTS IN THE VAPOR COMPRESSION CYCLE USING REDUCED PROPERTIES
- 4437 A PROCEDURE FOR MEASURING THE DYNAMIC THERMAL PERFORMANCE OF WALL SPECIMENS USING A CALIBRATED HOT BOX
- 4438 ENERGY ANALYSIS OF HEAT PUMPS
- 4439 TEMPERATURE MEASUREMENT OF GLASS SUBJECTED TO SOLAR RADIATION
- 4440 KNOWLEDGE-BASED FRONT-END INPUT GENERATING PROGRAM FOR BUILDING SYSTEM SIMULATION
- 4444 MEASUREMENT TECHNIQUES FOR HORIZONTAL FLOW BOILING HEAT TRANSFER WITH PURE AND MIXED REFRIGERANTS
- 4447 INTEGRAL MASS BALANCES AND PULSE INJECTION TRACER TECHNIQUES
- 4449 INVESTIGATION INTO THE ASHLAND OIL STORAGE TANK COLLAPSE ON JANUARY 2, 1988
- 4450 STATISTICAL CHARACTERISTICS OF NEW PIN PENETRATION TEST
- 4451 GUIDELINES AND PROCEDURES FOR IMPLEMENTATION OF EXECUTIVE ORDER ON SEISMIC SAFETY
- 4453 INELASTIC BEHAVIOR OF FULL-SCALE BRIDGE COLUMNS SUBJECTED TO CYCLIC LOADING
- 4455 THE NBS MULTI-ZONE IAQ MODEL
- 4456 INITIAL GRAPHICS EXCHANGE SPECIFICATION (IGES) VERSION 4.0
- 4457 TRACER GAS TECHNIQUES FOR STUDYING BUILDING AIR EXCHANGE
- 4458 THE DAYLIGHTING AND THERMAL PERFORMANCE OF ROOF GLAZING IN ATRIUM SPACES
- 4459 THE INTERACTION OF LIGHTING, HEATING, AND COOLING SYSTEMS IN BUILDINGS - INTERIM REPORT
- 4463 ROOM-TEMPERATURE THERMAL RESISTANCE MEASUREMENTS OF NEW AND EXISTING MATERIALS FOR SHIPBOARD AIR DUCT SYSTEMS
- 4464 EVALUATION OF THE WORKING ENVIRONMENT AT SELECTED U.S. ARMY FIELD STATIONS; SUGGESTIONS FOR IMPROVEMENT
- 4465 LIGHTS OF NEW YORK HARBOR
- 4468 EVALUATION OF FUMED-SILICA INSULATION FOR A THERMAL CONDUCTIVITY STANDARD REFERENCE MATERIAL
- 4470 A GYPSUM WALLBOARD FORMALDEHYDE SORPTION MODEL
- 4471 DURABILITY OF CEMENT PASTES, MORTARS, AND CONCRETES
- 4472 INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS
- 4474 FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: LABORATORY EVALUATION OF THE PROTOTYPE TEST DEVICES

- 4476 AIRFLOW NETWORK MODELS FOR COMPONENT BASED BUILDING AIRFLOW MODELING
- 4477 ANALYSIS OF ENVIRONMENTAL DATA FROM THREE ARMY FIELD STATIONS
- 4478 EVALUATION OF COLORS FOR HIGHWAY APPLICATIONS
- 4479 VERIFICATION OF EVAPORATOR COMPUTER MODELS AND ANALYSIS OF PERFORMANCE OF AN EVAPORATOR COIL
- 4482 THE MEASURED PERFORMANCE OF RESIDENTIAL WATER HEATERS USING EXISTING AND PROPOSED DEPARTMENT OF ENERGY TEST PROCEDURES
- 4483 HORIZONTAL FLOW BOILING HEAT TRANSFER USING REFRIGERANTS MIXTURES
- 4484 STANDARDIZING ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS
- 4486 MEASURING AIRFLOW RATES WITH PULSE TRACER TECHNIQUES
- 4487 ASSESSMENT OF ROBOTICS FOR IMPROVED BUILDING OPERATION AND MAINTENANCE
- 4488 EXECUTIVE SUMMARY - CONFERENCE ON ACCREDITATION OF CONSTRUCTION MATERIALS TESTING LABORATORIES
- 4489 APPLICATION OF CCRL DATA IN THE DEVELOPMENT OF CEMENT STANDARDS
- 4492 EPOXY IMPREGNATION OF HARDENED CEMENT FOR MICROSTRUCTURAL CHARACTERIZATION
- 4493 BRICK MASONRY: US OFFICE BUILDING IN MOSCOW
- 4494 DESIGN QUALITY THROUGH USE OF COMPUTERS
- 4495 SIMILITUDE STUDIES OF PROTOTYPE AND 1/6-SCALE MODEL BRIDGE COLUMNS UNDER REVISED CYCLIC LOADING
- 4496 BUILDING TECHNOLOGY PROJECT SUMMARIES, 1988
- 4497 PROCESS FOR CREATING A NATIONAL BUILDING RESEARCH AGENDA
- 4498 ANALYTICAL METHOD FOR BETTER FIRE SAFETY DESIGN
- 4499 EXPERIMENTAL STUDY OF GUSSETED CONNECTIONS FOR LATERALLY BRACED STEEL BUILDINGS
- 4500 MAT FOUNDATIONS FOR OFFSHORE STRUCTURES IN ARCTIC REGIONS
- 4502 COLLAPSE OF MASONRY WALL UNDER CONSTRUCTION IN PAWTUCKET, RI OCTOBER 28, 1985
- 4503 AN EVALUATION OF TWO REFRIGERANT MIXTURES IN A BREADBOARD AIR CONDITIONER
- 4507 IMPLICATIONS OF COMPUTER-BASED SIMULATION MODELS, EXPERT SYSTEMS, DATABASES, AND NETWORKS FOR ADVANCING CEMENT RESEARCH
- 4508 REFLECTION/ABSORPTION FTIR SPECTRAL CHARACTERIZATION OF THICK AND THIN CROSSLINKED EPOXY FILMS ON STEEL SUBSTRATES
- 4509 FTIR SPECTROSCOPIC STUDIES OF THE DEGRADATION OF ONE-COMPONENT POLYURETHANE PROTECTIVE COATINGS ON STEEL
- 4511 THERMAL WAVE MICROSCOPY IN CORROSION STUDIES
- 4512 INTERFACE BOND STRENGTH OF ORGANIC FILMS ON METALS USING REFLECTION/ABSORPTION FTIR

- 4513 AN ELECTROCHEMICAL TECHNIQUE FOR RAPIDLY EVALUATING
PROTECTIVE COATINGS ON METALS
- 4515 QUANTITATIVE STUDIES OF COATINGS ON STEEL USING REFLECTION
ABSORPTION FOURIER TRANSFORM INFRARED SPECTROSCOPY
- 4517 HELICAL PROBE TESTS: INITIAL TEST CALIBRATION
- 4518 AN INITIAL INVESTIGATION OF THE PROPERTIES AND PERFORMANCE
OF MAGNESIUM OXYCHLORIDE-BASED FOAM THERMAL INSULATION
- 4519 REPORT OF ROOF INSPECTION: DELAMINATION OF ADHESIVE-BONDED
SEAMS AT AN ARMY FACILITY
- 4520 FURTHER INVESTIGATION OF THE EFFECT OF APPLICATION PARAMETERS
ON ADHESIVE BONDED SEAMS OF SINGLE-PLY ROOF MEMBRANES
- 4522 CHARACTERIZATION OF POTENTIAL THERMAL DEGRADATION PRODUCTS
FROM THE REACTIONS OF AQUEOUS ETHYLENE GLYCOL AND PROPYLENE
GLYCOL SOLUTIONS WITH COPPER METAL
- 4523 A REVIEW OF PRELIMINARY PERFORMANCE CRITERIA FOR TENSILE AND
TENSILE FATIGUE TESTS OF BITUMINOUS ROOFING MEMBRANES
- 4524 TEST OF ADHESIVE-BONDED SEAMS OF SINGLE-PLY RUBBER MEMBRANES
- 4525 STRAIN ENERGY OF BITUMINOUS BUILT-UP MEMBRANES: A NEW
CONCEPT IN LOAD-ELONGATION TESTING
- 4526 EFFECT OF APPLICATION VARIABLES ON BOND STRENGTH OF EPDM'S
- 4527 NON-DESTRUCTIVE METHODS FOR INSPECTION OF SEAMS OF
SINGLE-PLY ROOFING MEMBRANES
- 4528 ASTM COMMITTEE COMPLETES WORK ON EPDM SPECIFICATION
- 4529 DISTURBANCE PROPAGATION APPROACH TO THE DYNAMIC
CHARACTERIZATION OF LINEAR FLEXIBLE STRUCTURES
- 4530 ESTIMATION OF DYNAMIC GREEN'S FUNCTIONS FOR LARGE SPACE
STRUCTURES BY PULSE PROBING AND DECONVOLUTION
- 4531 DYNAMIC CHARACTERIZATION OF STRUCTURES BY PULSE PROBING AND
DECONVOLUTION - PAPER 88-2230
- 4532 IDENTIFICATION OF DYNAMIC GREEN'S FUNCTIONS IN STRUCTURAL
NETWORKS
- 4533 HURRICANE CLIMATOLOGY
- 4534 CONTINUOUS VERSUS CYCLIC WET-DRY EXPOSURE RESULTS FOR
SCRIBED STEEL COATED PANELS
- 4535 APPLICATION OF MATHEMATICAL MODELING TO THE EVALUATION OF
BUILDING VENTILATION SYSTEMS
- 4536 THERMOPHYSICAL PROPERTY NEEDS FOR THE
ENVIRONMENTALLY-ACCEPTABLE HALOCARBON REFRIGERANTS
- 4537 SUGGESTED RESEARCH TOPICS FOR THE CERL PROGRAM, EVALUATION
OF ROOFING MATERIALS DEGRADATION PROCESSES
- 4538 PRODUCT MODELLING FOR BUILDINGS FOR DATA EXCHANGE STANDARDS:
FROM IGES TO PDES/STEP AND BEYOND
- 4540 RULE BASED DIAGNOSTIC METHOD FOR HVAC FAULT DETECTION
- 4541 CO EMISSION FROM DRAFT HOOD EQUIPPED CENTRAL FURNACE
- 4542 THERMOPHYSICAL PROPERTY MEASUREMENT IN BUILDING INSULATION
MATERIALS USING A SPHERICALLY-SHAPED, SELF-HEATED PROBE

- 4543 THE RELATION OF CO2 CONCENTRATION TO OFFICE BUILDING VENTILATION
- 4544 THE DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING AND CORROSION OF COATINGS ON STEEL INFRARED THERMOGRAPHY
- 4545 RELATIONSHIP BETWEEN APPEARANCE AND PROTECTIVE DURABILITY OF COATINGS: A LITERATURE REVIEW
- 4546 CORROSION OF METALLIC FASTENERS IN LOW-SLOPED ROOFS: A REVIEW OF AVAILABLE INFORMATION AND IDENTIFICATION OF RESEARCH NEEDS
- 4547 FIELD TESTING OF ADHESIVE-BONDED SEAMS OF RUBBER ROOFING MEMBRANES
- 4548 MICROSTRUCTURAL ASPECTS OF THE FRACTURE OF HYDRATED CEMENT
- 4548 SEASONAL PERFORMANCE EVALUATION PROCEDURES FOR DOMESTIC ELECTRIC DRIVEN HEAT PUMPS AND AIR CONDITIONERS
- 4550 EXPERIMENTAL INVESTIGATION AND MODELING OF FLOW RATE OF REFRIGERANT 22 THROUGH SHORT TUBE RESTRICTOR
- 4551 VISUALIZATION OF NUCLEATE FLOW BOILING FOR A R22/R114 MIXTURE AND THEIR COMPONENTS
- 4552 AIRNET - A COMPUTER PROGRAM FOR BUILDING AIRFLOW NETWORK MODELING
- 4554 A MIXING RULE FOR LIQUID VISCOSITIES OF REFRIGERANT MIXTURES
- 4555 EVALUATING OFFICE LIGHTING ENVIRONMENTS: SECOND LEVEL ANALYSIS
- 4556 CONSIDERATIONS FOR ADVANCED BUILDING THERMAL SIMULATION PROGRAMS
- 4557 A STUDY OF THE PERFORMANCE OF RESIDENTIAL BOILERS FOR SPACE AND DOMESTIC HOT WATER HEATING
- 4558 TESTING CONFORMANCE TO ENERGY MANAGEMENT AND CONTROL SYSTEM COMMUNICATION PROTOCOLS - PART 1: TEST ARCHITECTURE
- 4559 EFFECT OF CONTAMINATION LEVEL ON CURE STRENGTH BUTYL ADHERED EPDM T-PEEL JOINTS
- 4560 STRENGTH REDUCTION OF EPDM SINGLE-PLY SEAM JOINTS DUE TO SURFACE CONTAMINANTS
- 4561 SET TIME CONTROL STUDIES OF POLYMER CONCRETE
- 4562 SCREENING PROCEDURES FOR DETECTING LEAD IN EXISTING PAINT FILMS: A LITERATURE REVIEW
- 4563 VENTILATION RATES IN OFFICE BUILDINGS
- 4564 ENVIRONMENTAL EVALUATION OF THE PORTLAND EAST FEDERAL OFFICE BUILDING PREOCCUPANCY AND EARLY OCCUPANCY RESULTS
- 4565 LIGHTING QUALITY AND LIGHT SOURCE SIZE
- 4566 REVISION 1 - RATING PROCEDURE FOR MIXED AIR SOURCE UNITARY AIR CONDITIONERS AND HEAT PUMPS OPERATING IN THE COOLING MODE
- 4567 ACCELERATED AGING TEST DESIGN FOR COATING SYSTEMS
- 4569 PUNCHING SHEAR RESISTANCE OF LIGHTWEIGHT CONCRETE OFFSHORE STRUCTURE FOR THE ARCTIC: RESULTS OF EXPERIMENTAL STUDY

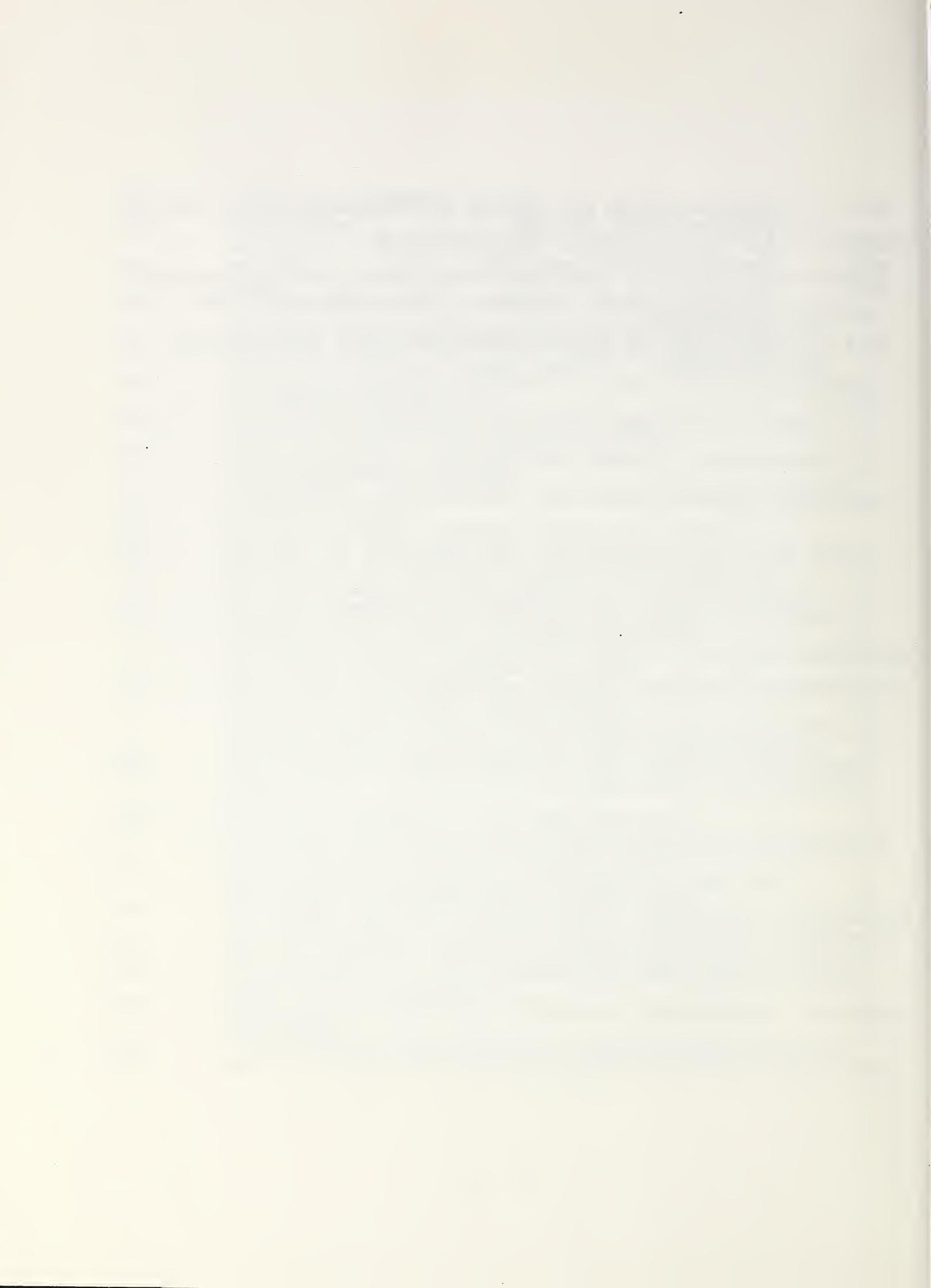
- 4571 SIMULATION STUDIES OF PROTOTYPE AND 1/6-SCALE MODEL BRIDGE
COLUMNS UNDER REVERSED CYCLIC LOADING
- 4574 THE MEASUREMENT OF STRUCTURAL DEFLECTIONS
- 4575 CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS
- 4576 CHAOTIC BEHAVIOR OF GALLOPING OSCILLATORS
- 4577 INSTRUMENTATION OF THE SHENYANG T.V. TOWER
- 4578 HYDRODYNAMIC FORCES ON VERTICAL CYLINDERS AND THE LIDTHILL
CORRECTION
- 4580 SERVICE LIFE OF CONCRETE
- 4581 GUIDE SPECIFICATIONS AND REFERENCE SPECIFICATION SYSTEM
- 4582 RESEARCH AS THE TECHNICAL BASIS FOR STANDARDS USED IN
BUILDING CODES
- 4583 EVISM - AN EVAPORATOR MODEL ACCOUNTING FOR REFRIGERANT AND
ONE DIMENSIONAL AIR DISTRIBUTION
- 4584 A METHOD FOR MEASURING THE EFFECTIVENESS OF GASEOUS
CONTAMINANT REMOVAL FILTERS
- 4585 THERMAL CONDUCTIVITY OF FUMED SILICA BOARD AT ROOM
TEMPERATURE
- 4586 THE INTERACTION OF BUILDING LIGHTING, HEATING AND COOLING
SYSTEMS
- 4587 EXPERIMENTAL VALIDATION OF A MATHEMATICAL MODEL FOR
PREDICTING WATER VAPOR SORPTION AT INTERIOR BUILDING
SURFACES
- 4588 INTERIM GUIDELINE FOR WORKSTATION DESIGN
- 4589 STANDARD CEMENT CLINKERS FOR PHASE ANALYSIS
- 4592 U.S. SIDE: ACCOMPLISHMENTS AND CHALLENGES - PANEL ON WIND
AND SEISMIC EFFECTS, PROCEEDINGS OF THE 20TH JOINT MEETING
- 4593 TRENDS FOR BUILDINGS TECHNOLOGY IN NORTH AMERICA PREPRINTS
FIFTH CANADIAN BUILDING AND CONSTRUCTION CONGRESS
- 4594 ASHLAND TANK COLLAPSE INVESTIGATION
- 4595 EXPERIMENTAL STUDY OF GUSSETED CONNECTIONS
- 4596 GUIDELINES FOR IDENTIFICATION AND MITIGATION OF SEISMICALLY
HAZARDOUS EXISTING FEDERAL BUILDINGS
- 4597 EVALUATION OF AERODYNAMIC DRAG AND TORQUE FOR EXTERNAL TANKS
IN LOW EARTH ORBIT
- 4601 EXPERIMENTAL AND ANALYTICAL INVESTIGATIONS ON PUNCHING SHEAR
OF THICK, LIGHTWEIGHT CONCRETE PLATES AND SHELLS
- 4603 STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION
STUDIES
- 4604 STANDARD AGGREGATE MATERIALS FOR ALKALI-SILICA REACTION
STUDIES
- 4605 INFLUENCE OF CEMENT PORE SOLUTION ON EXPANSION
- 4607 A PROPOSED METHODOLOGY FOR RATING AIR-SOURCE HEAT PUMPS THAT
HEAT, COOL, AND PROVIDE DOMESTIC WATER HEATING
- 4610 SOURCE STRENGTHS AND SOURCES OF VOLATILE ORGANIC COMPOUNDS
IN A NEW OFFICE BUILDING

- 4611 THE EFFECT OF BUILDING ENVELOPES ON COOLING LOADS DUE TO LIGHTING
- 4613 VENTILATION AND AIR QUALITY INVESTIGATION OF U.S.G.S. BUILDING
- 4614 TECHNIQUES FOR INVESTIGATING BUILDING INDOOR AIR QUALITY
- 4616 TECHNICAL AND ECONOMIC ANALYSIS OF CFC-BLOWN INSULATIONS AND SUBSTITUTES FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION
- 4617 GEOMETRY AND AMPLITUDE OF VEILING REFLECTIONS
- 4618 OVERVIEW OF IGES/PDES TESTING PROJECT
- 4620 VALIDATION OF MODELS FOR PREDICTING FORMALDEHYDE CONCENTRATIONS IN RESIDENCES DUE TO PRESSED-WOOD PRODUCTS
- 4621 INTERIM CRITERIA FOR POLYMER-MODIFIED BITUMINOUS ROOFING MEMBRANE MATERIALS: A SUMMARY REPORT
- 4622 FRIABILITY OF SPRAY-APPLIED FIREPROOFING AND THERMAL INSULATIONS: FIELD EVALUATION OF PROTOTYPE TEST DEVICES
- 4623 A MICROELECTRODE TECHNIQUE FOR MEASURING CHLORIDE ION IN COATING BLISTERS AND CORROSION POTENTIAL AT THE COATING/METAL INTERFACE
- 4625 DEVELOPMENT OF A METHOD TO MEASURE IN-SITU CHLORIDE AT THE METAL/COATING INTERFACE
- 4626 MANUAL FOR THE CEMENT HYDRATION SIMULATION MODEL
- 4627 IN SITU MEASUREMENTS OF CHLORIDE ION AT THE COATING/METAL INTERFACE
- 4628 COOPERATIVE CALIBRATION AND ANALYSIS OF CEMENT CLINKER PHASES
- 4629 ABSORPTION OF HIGH-RANGE WATER-REDUCING AGENTS ON SELECTED PORTLAND CEMENT PHASES AND RELATED MATERIALS
- 4632 ROOFING PERFORMANCE: 9TH CONFERENCE ON ROOFING TECHNOLOGY
- 4635 STATIC TEST ON ONE-THIRD SCALE IMPACT LIMITER
- 4636 SITE CHARACTERIZATION FOR RADON SOURCE POTENTIAL
- 4637 PERIODIC, QUASIPERIODIC, AND CHAOTIC MOTIONS OF FORCED AND AUTONOMOUS GALLOPING OSCILLATORS
- 4639 PRELIMINARY PERFORMANCE CRITERIA FOR BUILDING MATERIALS, EQUIPMENT AND SYSTEMS USED IN DETENTION AND CORRECTIONAL FACILITIES
- 4640 IMPULSE RESPONSE FUNCTIONS FOR ELASTIC STRUCTURAL NETWORKS WITH RIGID BODY DEGREES OF FREEDOM
- 4641 PORE WATER PRESSURE BUILDING IN CLEAN SANDS BECAUSE OF CYCLIC STRAINING
- 4642 INFLUENCE OF HORIZONTAL REINFORCEMENT ON SHEAR RESISTANCE OF CONCRETE BLOCK MASONRY WALLS
- 4643 QUANTIFICATION OF HEAT LOSSES THROUGH STRUCTURAL SUPPORTS FOR SHALLOW TRENCH HEAT DISTRIBUTION SYSTEMS
- 4644 THE COUPLED AIRFLOW AND THERMAL ANALYSIS PROBLEM IN BUILDING AIRFLOW SYSTEM SIMULATION

- 4647 TECHNOLOGY FOR COMPETITIVENESS OF THE U.S. CONSTRUCTION
INDUSTRY
- 4650 COLLAPSE OF FILING SYSTEM IN NOAA SILVER SPRING OFFICE
- 4651 ENERGY TRANSFER MECHANISM IN SPT
- 4652 MINIMUM SHEAR REINFORCEMENT IN BEAMS WITH HIGHER STRENGTH
CONCRETE
- 4653 BUILDING TECHNOLOGY PROJECT SUMMARIES 1989
- 4654 WIND AND SEISMIC EFFECTS - PROCEEDINGS OF 20TH JOINT MEETING
- 4655 IDENTIFICATION OF DYNAMIC GREEN'S FUNCTIONS IN STRUCTURAL
NETWORKS
- 4656 INELASTIC BEHAVIOR OF FULL-SCALE BRIDGE COLUMNS SUBJECTED
TO CYCLIC LOADING
- 4657 AIR QUALITY INVESTIGATION IN THE NIH RADIATION ONCOLOGY
BRANCH
- 4658 DEVELOPMENT OF AN AUTOMATED PROBE FOR THERMAL CONDUCTIVITY
MEASUREMENTS
- 4659 TRANSIENT MOISTURE AND HEAT TRANSFER IN MULTILAYER
NONISOTHERMAL WALLS--COMPARISON OF PREDICTED AND MEASURED
RESULTS
- 4661 POST-OCCUPANCY EVALUATION OF SEVERAL U.S. GOVERNMENT
BUILDINGS
- 4663 SOFTWARE CONCEPT FOR CHECKING ENGINEERING DESIGNS FOR
CONFORMANCE WITH CODES AND STANDARDS
- 4666 NONDESTRUCTIVE METHODS FOR INSPECTING SINGLE PLY ROOFING
SEAMS
- 4667 RESULTS OF A SURVEY OF THE PERFORMANCE OF EPDM ROOFING AT
ARMY FACILITIES
- 4668 EVALUATION OF TEST METHODS FOR MEASURING THE BOND OF
PORTLAND CEMENT-BASED REPAIR MATERIALS TO CONCRETE
- 4669 INTERIM CRITERIA FOR MODIFIED BITUMEN
- 4670 ACCELERATED VERSUS NATURAL WEATHERING OF COATINGS AND OTHER
POLYMERIC MATERIALS: A STATE OF THE ART
- 4671 STANDARD SPECIFICATION FOR CEMENTS AND THE ROLE IN THEIR
DEVELOPMENT OF QUALITY ASSURANCE SYSTEMS FOR LABORATORIES
- 4673 AN AC-IMPEDANCE SPECTROSCOPY STUDY OF THE EFFECTS OF SURFACE
ROUGHNESS AND CONTAMINATION ON THE CORROSION BEHAVIOR OF EPOXY
COATED STEEL
- 4674 REFLECTION/ABSORPTION FTIR OF THE DEGRADATION OF PROTECTIVE
COATINGS ON MILD STEEL
- 4676 A METHOD TO MEASURE THE TENSILE BOND STRENGTH BETWEEN TWO
WEAKLY-CEMENTED SAND GRAINS
- 4677 EVALUATION OF TEST METHODS FOR MEASURING THE BOND STRENGTH
OF PORTLAND CEMENT BASED REPAIR MATERIALS TO CONCRETE
- 4680 IN SITU MEASUREMENTS OF MOLECULAR BEHAVIOR AT THE
STEEL/OPAQUE COATINGS INTERFACE USING FTIR MULTIPLE
REFLECTION (ETC.)

4687 INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY
4688 INTEGRATED KNOWLEDGE SYSTEMS FOR ROOFING TECHNOLOGY
4689 ACCELERATED VS. NATURAL WEATHERING OF COATINGS AND POLYMERIC
MATERIALS: STATE-OF-THE-ART
4691 WORKSHOP ON CEMENT STABILIZATION OF LOW-LEVEL RADIO-ACTIVE
WASTE
4692 INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN
CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS
4694 REPORT OF ROOF INSPECTIONS: CHARACTERIZATION OF NEWLY
FABRICATED ADHESIVE-BONDED SEAMS AT AN ARMY FACILITY
4695 COMPUTER SIMULATION OF PARTICLE SIZE DISTRIBUTION EFFECTS
ON CEMENT MICROSTRUCTURE
4696 CONSTRUCTION MATERIALS REFERENCE LABORATORY AT NIST
PROMOTING QUALITY IN LABORATORY TESTING
4699 PORE STRUCTURE OF CONCRETE AND FREEZING VULNERABILITY OF
HIGH-PERFORMANCE CONCRETE
4701 PERMEABILITY, DIFFUSIVITY, AND MICROSTRUCTURAL PARAMETERS:
A CRITICAL REVIEW
4703 PORTLAND CEMENTS, BLENDED CEMENTS AND MORTARS
4707 METHODS FOR MEASURING LEAD CONCENTRATIONS IN PAINT FILMS
4708 PRELIMINARY PERFORMANCE CRITERIA FOR THE BOND OF
PORTLAND-CEMENT AND LATEX-MODIFIED CONCRETE OVERLAYS
4710 POTENTIAL METHODS FOR MEASURING AND DETECTING LEAD IN
EXISTING PAINT FILMS: A LITERATURE REVIEW
4712 CHARACTERIZATION OF CYLINDRICAL HOLES IN METALLIC SUBSTRATES
VIA THEIR INFRARED EMISSION PATTERNS
4714 ACTIVITIES OF CONSTRUCTION MATERIALS REFERENCE LABORATORIES
RELATED TO LABORATORY ACCREDITATION
4716 INTEGRATING KNOWLEDGE FOR THE IDENTIFICATION OF CRACKS IN
CONCRETE USING AN EXPERT SYSTEM SHELL AND EXTENSIONS
4721 DEVELOPMENT AND ENFORCEMENT OF U.S. BUILDING REGULATIONS
4722 INTERNATIONAL HARMONIZATION OF STANDARDS: DONE WITH OR
WITHOUT US
4724 EFFECTS OF RESEARCH ON BUILDING PRACTICE
4727 AUTONOMOUS PROPULSION SYSTEM REQUIREMENTS FOR PLACEMENT OF
AN STS EXTERNAL TANK IN LOW EARTH ORBIT
4729 INFLUENCE OF HORIZONTAL REINFORCEMENT ON THE SHEAR
RESISTANCE OF CONCRETE BLOCK MASONRY WALLS
4731 EARTHQUAKE RESISTANT CONSTRUCTION OF ELECTRICAL TRANSMISSION
AND COMMUNICATION FACILITIES SERVING THE FEDERAL GOVERNMENT
4733 TESTS OF CONCRETE CORES FOR SILVER SPRING METRO CENTER 1
4734 INTERPRETATION OF PROBE PENETRATION TEST RESULTS SILVER
SPRING METRO CENTER 1
4736 SENSORS AND MEASUREMENTS TECHNIQUES FOR ASSESSING STRUCTURAL
PERFORMANCE
4743 A RELIABILITY-BASED APPROACH TO SERVICE LIFE PREDICTION
4746 CHAOTIC MOTIONS OF FORCED AND COUPLED GALLOPING OSCILLATORS

- 4767 VENTILATION AND AIR QUALITY INVESTIGATION OF THE MADISON
BUILDING PHASE I REPORT
- 4816 FAA LIRS STRUCTURAL COMPONENT TESTS
- 4817 1988 REVISION OF ANSI A58.1
- 4845 DETECTION AND QUANTITATIVE CHARACTERIZATION OF BLISTERING
AND CORROSION OF COATINGS ON STEEL USING INFRA-RED
THERMOGRAPHY
- 4846 PREDICTION OF SERVICE LIFE OF BUILDING MATERIALS AND
COMPONENTS



NIST-114A
(REV. 3-89)

U.S. DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

BIBLIOGRAPHIC DATA SHEET

1. PUBLICATION OR REPORT NUMBER

NISTIR 4616

2. PERFORMING ORGANIZATION REPORT NUMBER

3. PUBLICATION DATE

June 1991

4. TITLE AND SUBTITLE

Building Technology Publications
1986-1989

5. AUTHOR(S)

Thomas A. Somers

6. PERFORMING ORGANIZATION (IF JOINT OR OTHER THAN NIST, SEE INSTRUCTIONS)

U.S. DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
GAITHERSBURG, MD 20899

7. CONTRACT/GRANT NUMBER

8. TYPE OF REPORT AND PERIOD COVERED

Final

9. SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (STREET, CITY, STATE, ZIP)

Same as item 6.

10. SUPPLEMENTARY NOTES

DOCUMENT DESCRIBES A COMPUTER PROGRAM; SF-185, FIPS SOFTWARE SUMMARY, IS ATTACHED.

11. ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.)

This publication communicates the results of NIST's building research during the period 1986 through 1989. Publications constitute a major end product to NIST's efforts. This publication is divided into six chapters: 1. alphabetical listing of publication titles, 2. key-word listing, 3. author listing, 4. title listings classified by NIST Publication Series and by non-NIST publishers, 5. by technical disciplines--Structures, Materials, Environment, and 6. report reference index used to identify report titles.

12. KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS)

building technology; environment; fire research; HVAC; materials; structures

13. AVAILABILITY

UNLIMITED
FOR OFFICIAL DISTRIBUTION. DO NOT RELEASE TO NATIONAL TECHNICAL INFORMATION SERVICE (NTIS).

ORDER FROM SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE,
WASHINGTON, DC 20402.
 ORDER FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), SPRINGFIELD, VA 22161.

14. NUMBER OF PRINTED PAGES

163

15. PRICE

A08

ELECTRONIC FORM

